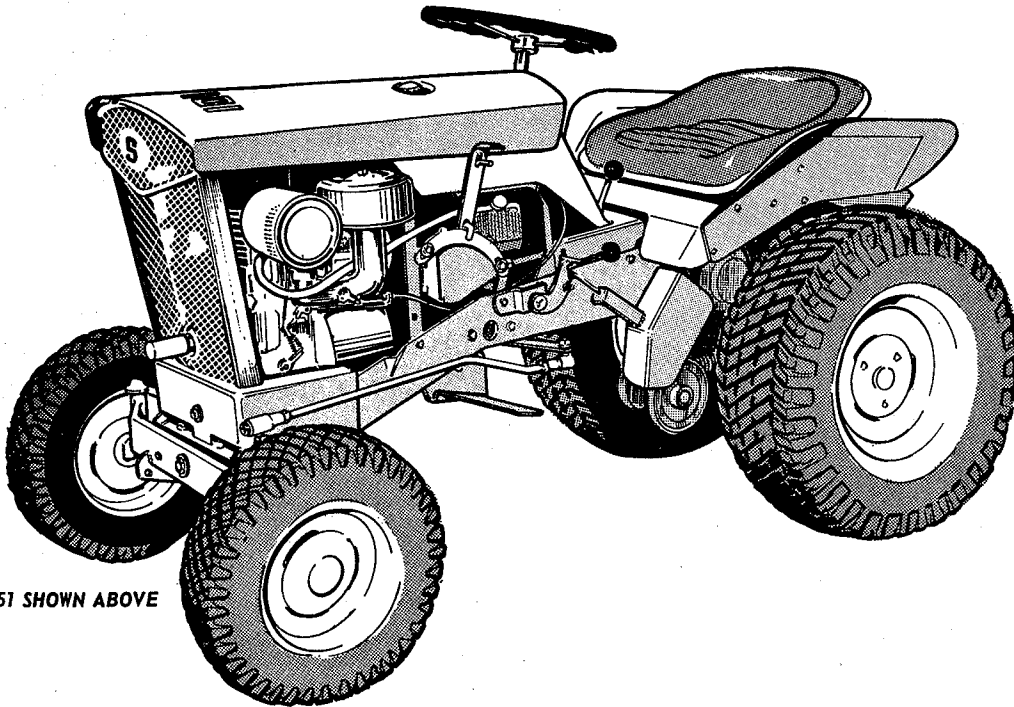


5-5-66

# *Simplicity*®

## **10 H. P. LANDLORD RIDING TRACTOR**



Mfrs. No. 351 SHOWN ABOVE

**Mfrs. No. 350  
Mfrs. No. 351**

## REAR LIFT GROUP INSTALLATION

The Rear Lift Group is to be installed in the following manner:

1. Remove 3 hex cap screws from left side of tractor as shown in figure 1.
2. Swing hitch member outward and install lift assembly as shown. Return hitch member to original position and replace hex cap screws. See Figure 2.
3. Insert right end of lift assembly into hole in right hitch member and position lift assembly so that collar is flush against right hitch member. Position collar on left side of lift assembly so it is flush against left hitch member; tighten socket hd. set screw with Allen-Wrench. See Figure 3.
4. Connect lift assembly to Rear Lift Group. Secure with Cutter Pin. See Figure 3.
5. Adjust rear lift rod so that there is clearance between the gear case and the lift assembly when the lift lever is in the forward, latched, position. Also adjust rod so that the lift assembly will strike the gear case before the lift lever strikes the air cleaner on engine when lift lever overtravels forward.

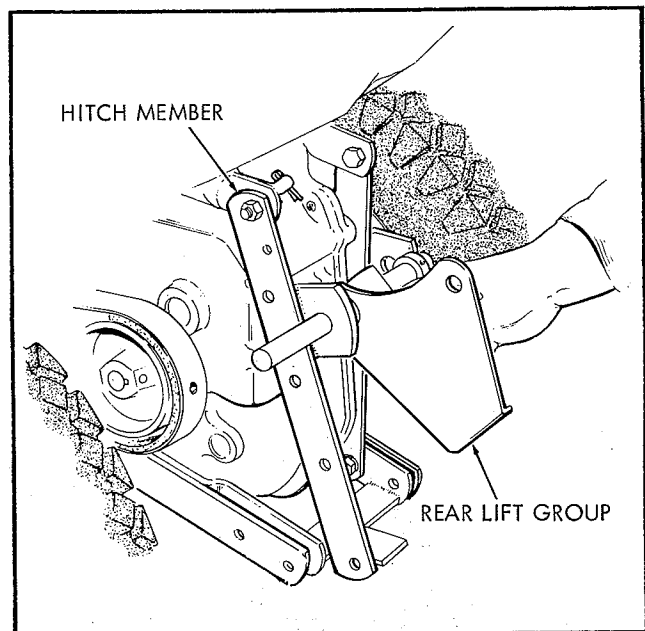


Fig. 2

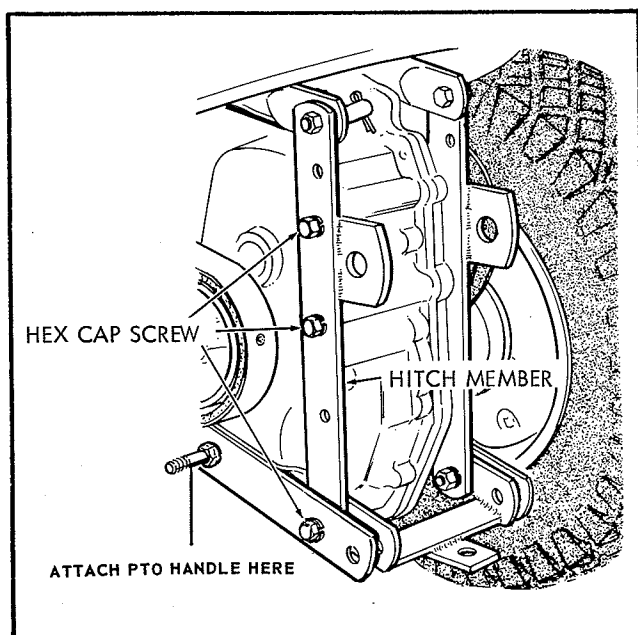


Fig. 1

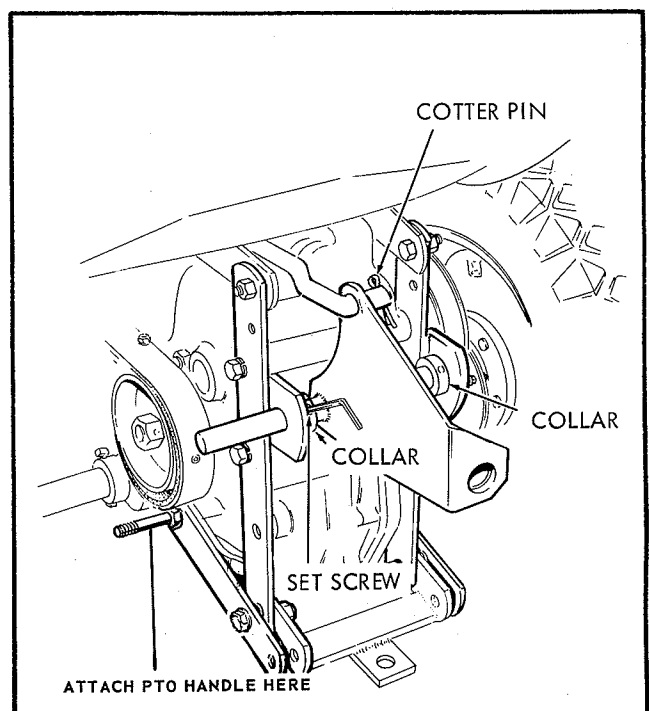


Fig. 3

## LUBRICATION

The tractor has a total of 3 grease fittings which require lubrication with general purpose automotive grease. Use a standard grease gun for the following fittings:

Before lubricating, wipe each grease fitting with a rag to prevent grit and dirt from being carried into bearings with new grease.

(2) Front Spindles - figure 4

(1) Rear Axle Tube - figure 6

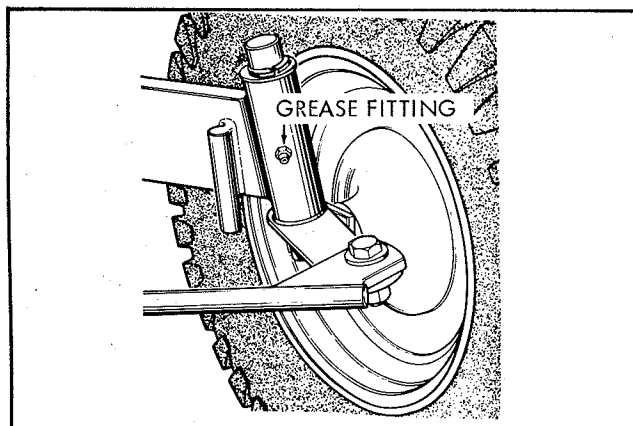


Fig. 4

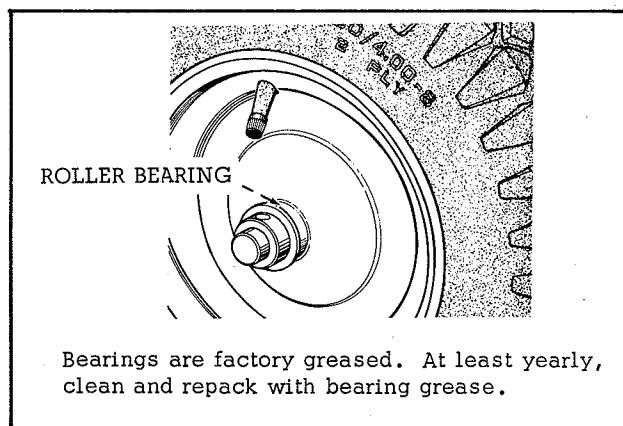


Fig. 5

*Add Fitting on Power  
Tap-off*

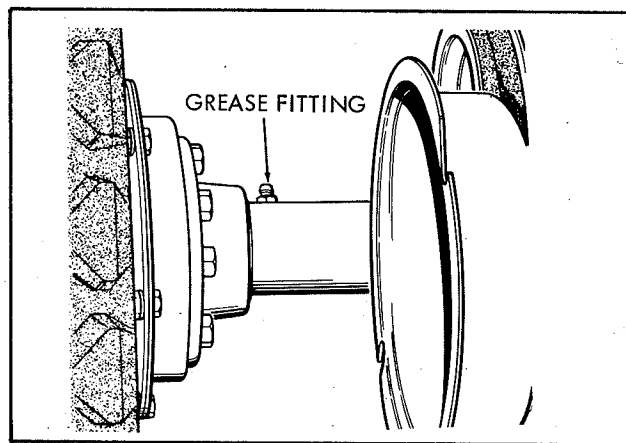


Fig. 6

The transmission has a capacity of 1 1/2 Qts. of SAE 90 oil, and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and axle tube oil seals for leakage. Maintain oil level at lower edge of filler plug hole. Remove vent plug from top of transmission and allow oil to settle to normal level before checking. See Figure 9.

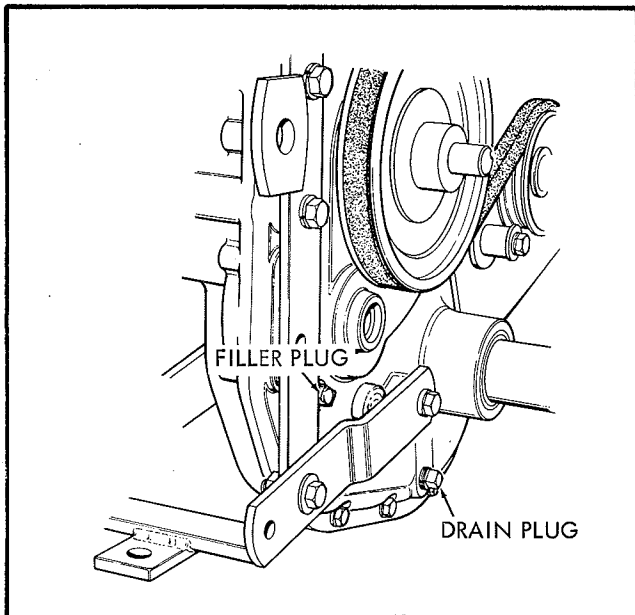


Fig. 9

## ENGINE

Engine - Service air cleaner and crankcase as recommended in engine service manual. Be sure air cleaner is maintained in clean condition. Never use oil in crankcase for more than 25 hours of operation. See figure 15. **CLEAN AIR AND CLEAN ENGINE OIL WILL GIVE LONG TROUBLE FREE OPERATION. DIRT WILL RUIN YOUR ENGINE IN A SHORT TIME.** A funnel and extension are included with the tractor for use in changing oil.

The bevel gear housing has a capacity of 1 pint of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and oil seals for leakage. Keep oil up to level of filler plug. See figure 10.

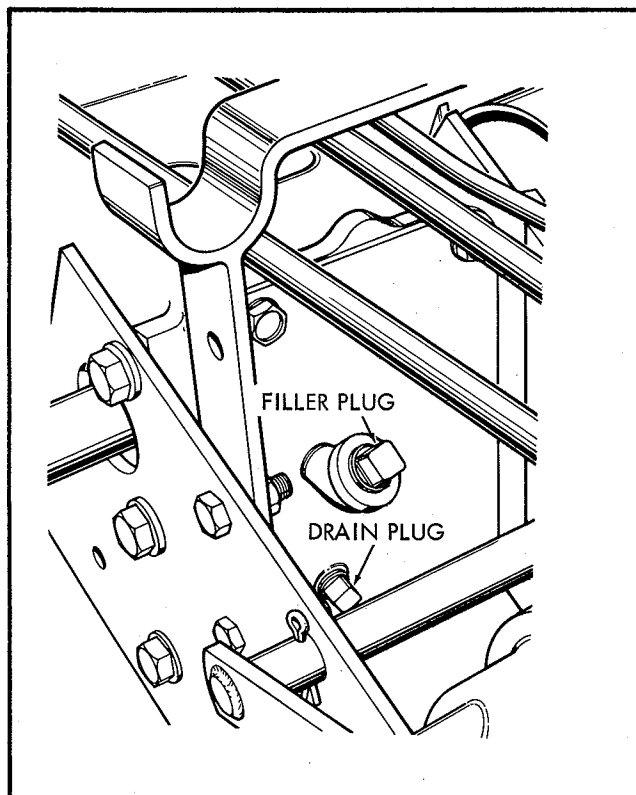


Fig. 10

## TIRES

The tires of the tractor are inflated with air pressure in excess of the normal amount for shipment. For comfort of operation, release some of the pressure until a pressure of 12 lbs per square inch is attained for front tires and 7 lbs per square inch is attained for rear tires. Maintain tires at these pressures.

## BATTERY

Battery - The battery should be kept clean and dry at all times. Keep battery snugly fastened in place and check battery cables for tight connections. Vent caps should be kept tight, and vent holes in vent caps must be kept open at all times to permit gases formed in battery to escape. Full maintenance instructions are provided on separate instruction card for battery.

If tractor is not used for an extended period during winter, remove battery and store in a fully charged condition, in a cool place.

## STARTING ENGINE-ELECTRIC STARTER

1. Place gear shift lever in neutral position. See figure 12. (Be sure tractor is on level ground and will not roll away in neutral. Apply parking brake.)
2. Place choke lever in "CHOKE" position. See figure 12 & 13.
3. Set throttle lever in mid position and turn ignition key to "ON". See figure 12. Press starter button to start engine and release. As engine warms up, return choke lever to "RUN" position.

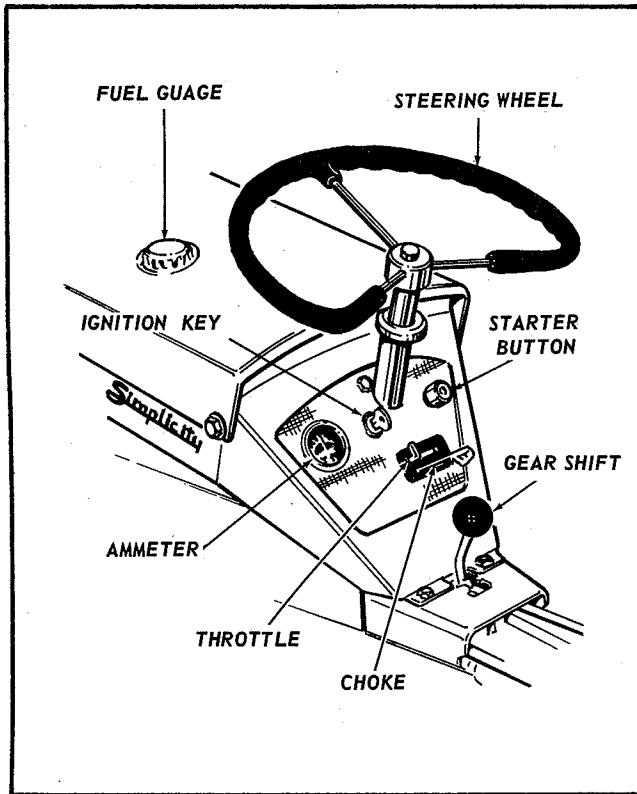


Fig. 12

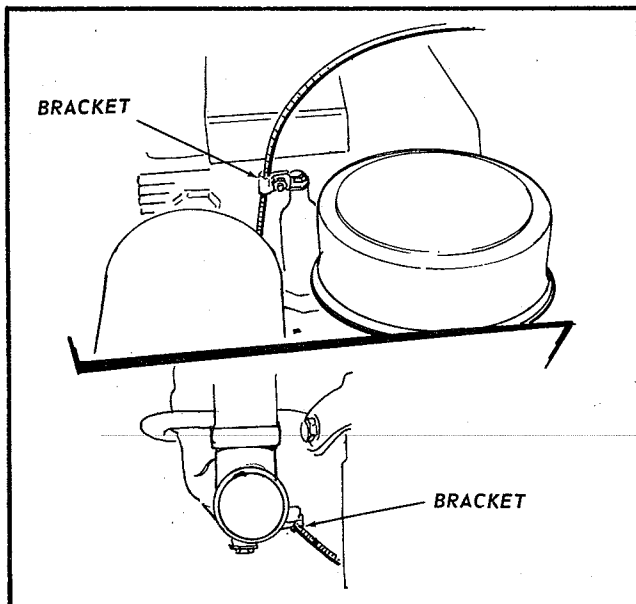


Fig. 13

## STARTING ENGINE- MANUAL

1. Place gear shift lever in neutral position. See figure 12. (Be sure tractor is on level ground and will not roll away.)
2. Pull lift lever handle all the way back and raise seat all the way up.
3. Place choke lever in "CHOKE" position. See figure 12 & 13.
4. Place throttle lever in mid position and turn ignition key to "ON" position. See figure 12.
5. Engage starter rope knot in groove on starter pulley and wind rope around pulley in a clockwise direction. See figure 14. Pull starter rope upwards, rapidly and firmly to start engine. As engine warms up, return choke lever to "RUN" position.

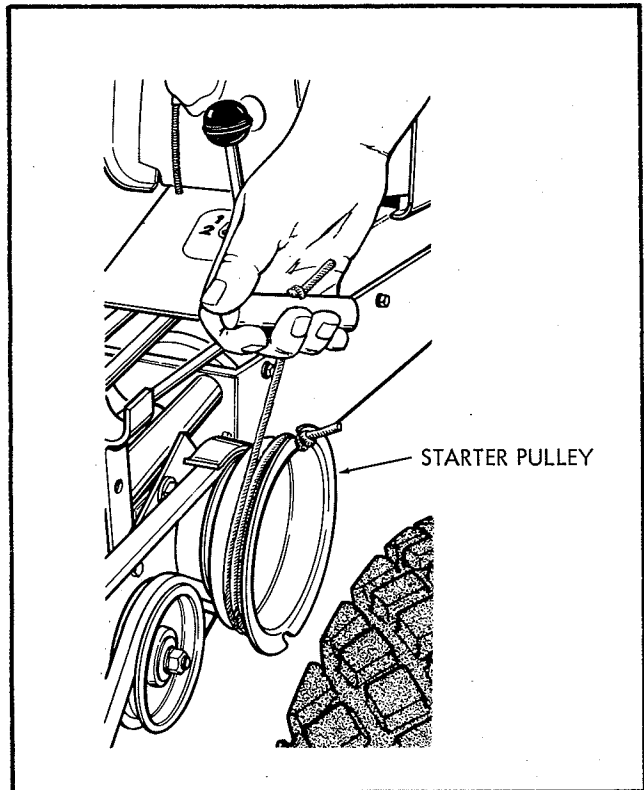


Fig. 14

## TO STOP ENGINE

With clutch disengaged, place gear shift in any gear and turn ignition key to "OFF" position. Engage clutch to hold tractor in parked position and remove ignition key for safekeeping. Apply parking brake!

## OPERATION OF TRACTOR

To place gear shift in desired gear range, depress the combination brake and clutch pedal located on right hand side of tractor. See figure 15. When pedal is depressed move shift lever to desired position (see figure 12) and gradually release pedal until clutch is engaged. When shifting from one range to another, pause briefly in neutral before completing shift. Set throttle lever to obtain desired speed. See figure 12

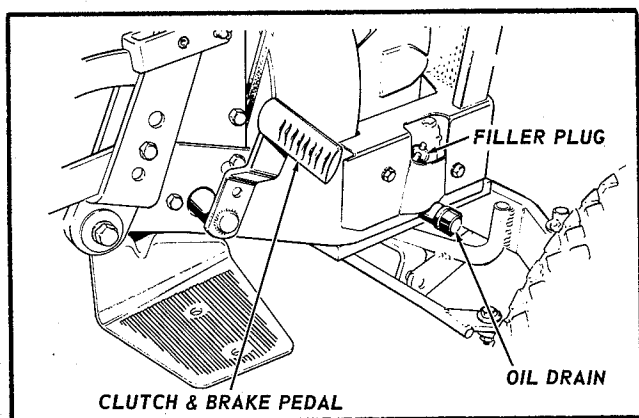


Fig. 15

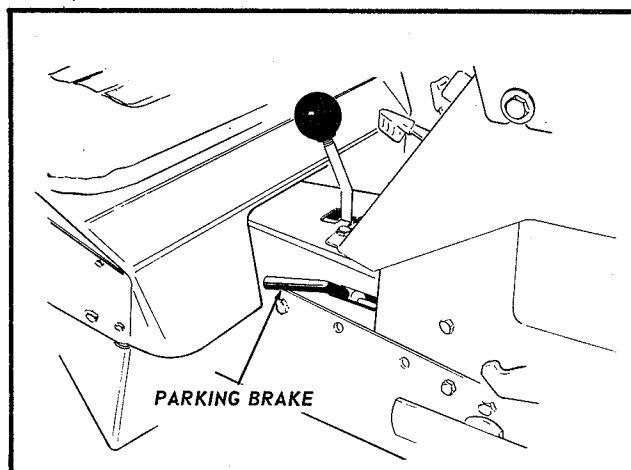


Fig. 16

## PARKING BRAKE

To operate the parking brake, hold the brake pedal depressed and slide the parking brake lever all the way to the rear of its slot and turn the lever in a clockwise direction until it is tight. Refer to Figure 16.

To release the parking brake, turn the parking brake lever in a counter-clockwise direction until the brake pedal is released.

## CLUTCH ADJUSTMENT

Position the locknuts to leave a space of about  $11/16''$  between them and the end of the rod guide.

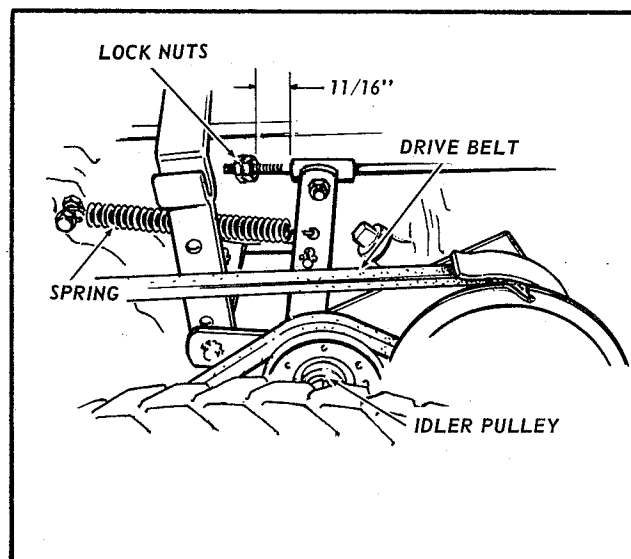


Fig. 17

## BRAKE ADJUSTMENT

Pull the brake band up by hand so that it is tight around the brake drum. Adjust the hex screw to give a clearance of about  $3/4''$  between the brake band and the screw head. Then check to see that the idler pulley releases the belt properly before the brake is applied. If the brake does not hold properly when the pedal is pushed all the way forward, reduce slightly the spacing between the head of the hex bolt and the brake band. Now recheck the clutch rod adjustment for proper idler release. Refer to Figure 18.

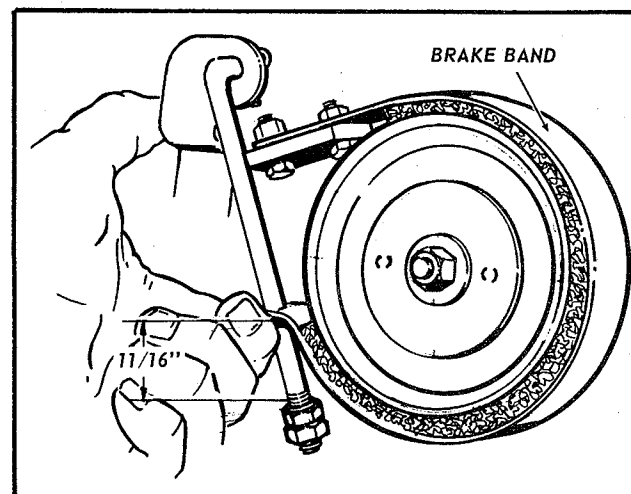


Fig. 18

For operation of Rotary Mower and Sickle Bar attachments, a power take-off attachment is required. This consists of the power take-off assembly, "V" pulley for bevel gear shaft, drive belt, belt guard, and belt stop packaged in one carton.

For ease of attachment follow the steps outlined below.

1. Mount Drive pulley to shaft of bevel gear assembly (See Figure 1) and secure in place with key and set screw. Hub of Drive pulley is to face inward. Place drive belt on Drive pulley and mount belt guard support to inside surface of side plate nearest drive pulley. See Figure 5 for mounting bolt location. Attach the belt guard to the guard support as shown in Figure 1. Allow approximately 3/16" clearance between belt and guard.

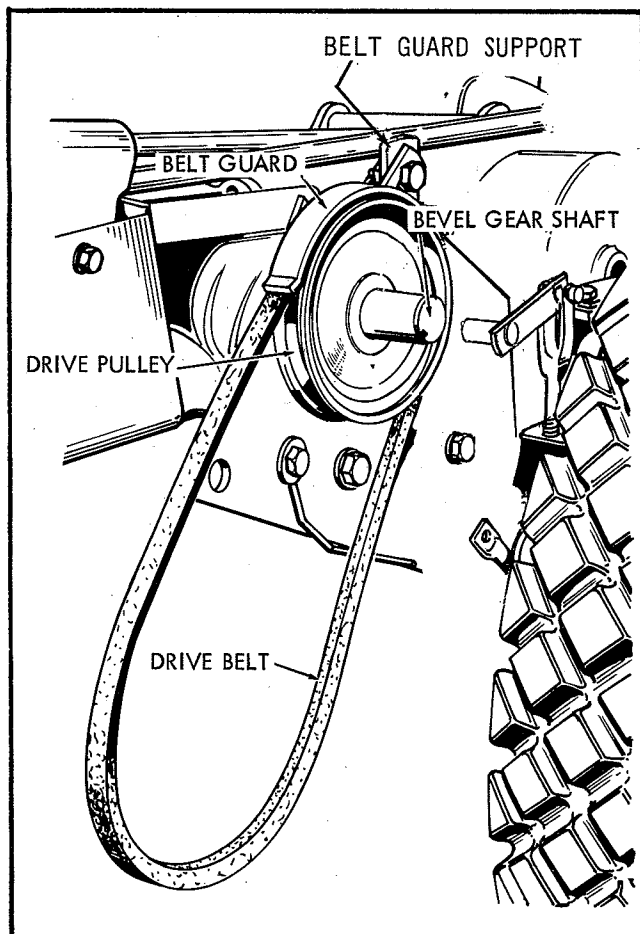


Fig. 1

2. Holding the power take-off assembly in left hand as shown in Figure 2, position the tube of the drive bracket assembly between the bevel gear housing side plates. Align the holes in side plates with the hole in drive bracket assembly tube and insert pivot pin through holes in side plates and drive bracket assembly tube.

3. Push pivot pin through the holes in bracket and tube until the position of cotter pin hole in pivot pin is as shown in Figure 3. Secure in position with cotter pin furnished.

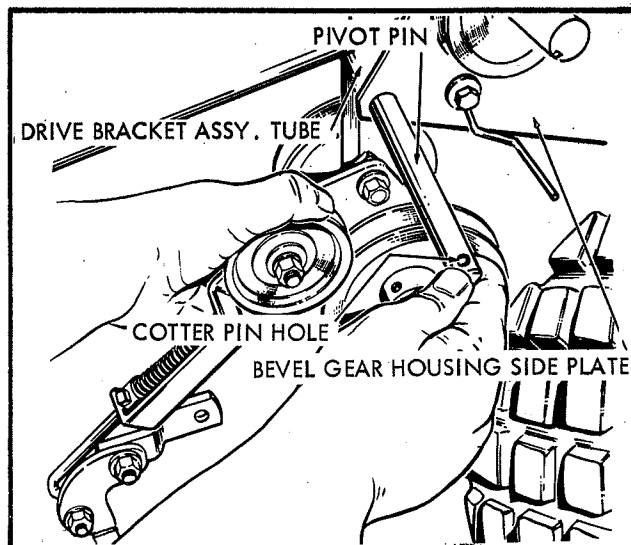


Fig. 2

4. Remove hex cap screw "D" from frame of tractor and mount bracket in place on lift lever quadrant. See Figure 4. Position the pivot bar assembly flush against bottom of lift quadrant and re-install hex cap screw and tighten securely. Check alignment of drive pulley on bevel gear shaft, driven pulley of power take-off, and idler pulley, and adjust driving pulley if necessary.

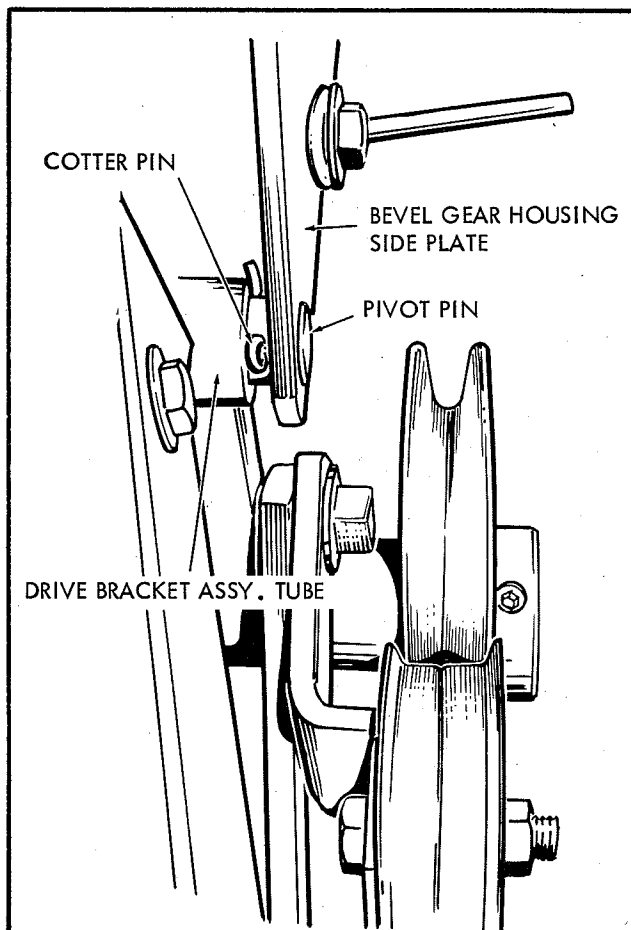


Fig. 3

5. Remove front hex cap screw from Pull Bar. Replace with stud 157273 provided. Short end inserted. Slip on Handle Assembly & tighten with hex head lock nut to permit free movement of handle. Mount "V" belt in place on driven pulley as shown in figure 5 and attach spring to hole provided in the bottom of the Bracket Assembly. Hook other end of the spring to the Handle Assembly. Mount belt stop as shown with 3/8" bolt, flat washer, lockwasher and hex nut. When Implement is attached

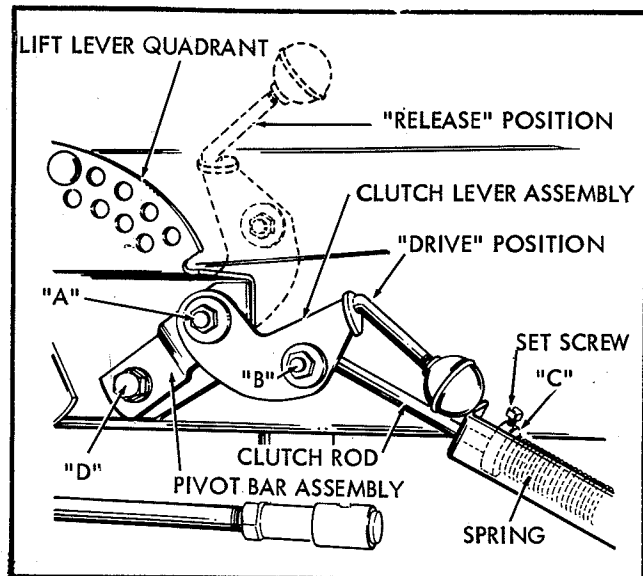


Fig. 4

to tractor with idler pulley engaged, 1/8" clearance between belt stop and back of "V" belt is required. Note: "V" belt runs under idler pulley. See Figure 5.

#### LUBRICATION

The power take-off is lubricated by means of one grease fitting located on the bottom front of the drive bracket assembly. Occasionally apply grease by means of a standard grease gun loaded with automotive type grease. Be sure to wipe dirt and grit from grease fitting before applying grease gun. Lubricate all pivot points and idler pulley bearings with SAE 20 oil every few hours of operation.

#### OPERATION

Operation of the power take-off is controlled by movement of the clutch lever assembly. See Figure 4. When the clutch lever is in the forward raised position, the clutch rod releases the tension holding the idler pulley against the drive belt, and power will not be transmitted to the driven pulley of the power take-off assembly. When the clutch lever is in the back, depressed position, the clutch rod applies tension to the idler pulley and as the idler pulley takes-up the slack in the drive belt, power is transmitted from the drive pulley on bevel gear box shaft to the driven pulley of the power take-off. Figure 4 shows clutch lever in drive position.

#### ADJUSTMENT

At points "A" and "B" of Figure 4, check tightness of hex nut to be sure that clutch lever assembly and clutch rod are free to pivot without binding.

Place clutch lever in "drive" position and observe clearance between collar "C" (Figure 4) and end of bracket. When implement is attached to tractor, this clearance should normally be approximately 3/4"; at this setting the

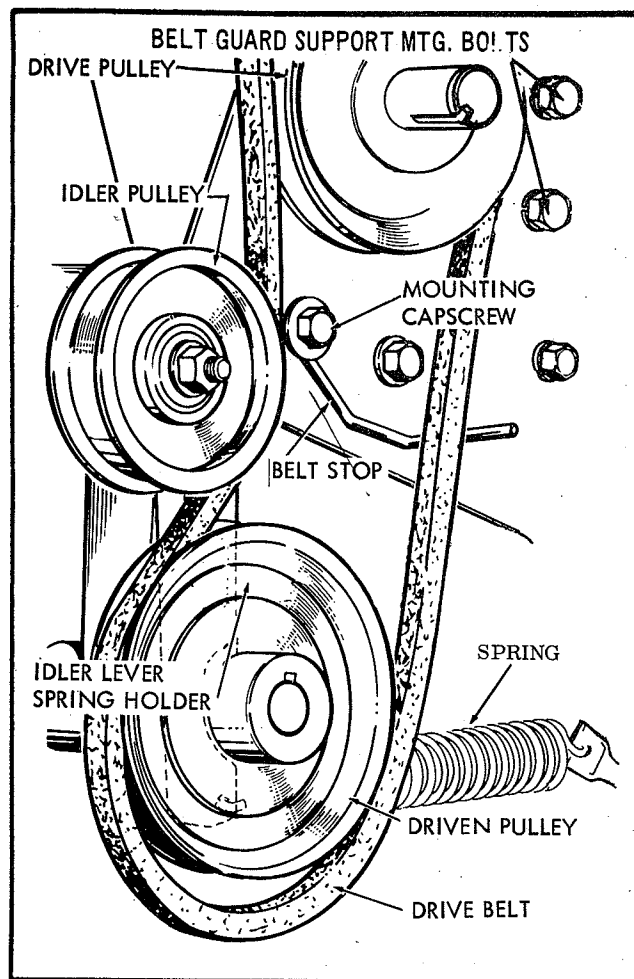


Fig. 5

idler pulley should be snugly against the drive belt. If additional tension is required, release clutch lever and loosen set screw on collar and slide collar farther back on clutch rod. Retighten set screw in collar and put clutch lever in drive position. Recheck clearance. The tension of the idler pulley against the drive belt must be sufficient to operate whichever tractor attachment is being used. Any additional tension is unnecessary and will only cause premature failure of belts and idler pulley bearings.

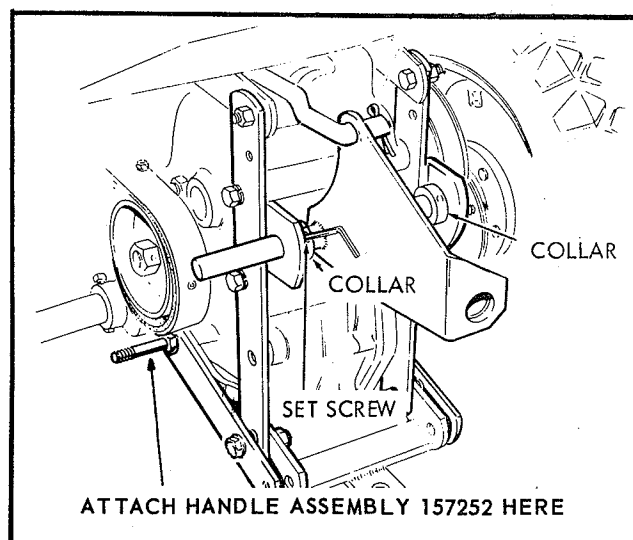


Fig. 6



## GUARANTEE

The Company guarantees Simplicity Products to be free from defects in material and workmanship. Any part proven defective within one year, under normal use, from date of purchase, (except tires, engines, and engine accessories which, usually are warranted by their respective manufacturers), will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid, and if upon examination at the factory found to be defective. The Company is not obligated under this guarantee to bear cost of labor or delivery charges in replacement of defective parts. This guarantee does not apply to any Simplicity Products altered outside of Simplicity's factory. We reserve the right to change construction, specifications, prices and terms, without notice and without obligation as to equipment heretofore shipped.

This form is to be used in lieu of the Registration (Warranty) Card.

Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name \_\_\_\_\_

Address \_\_\_\_\_

Mfg. No. \_\_\_\_\_ Serial No. \_\_\_\_\_

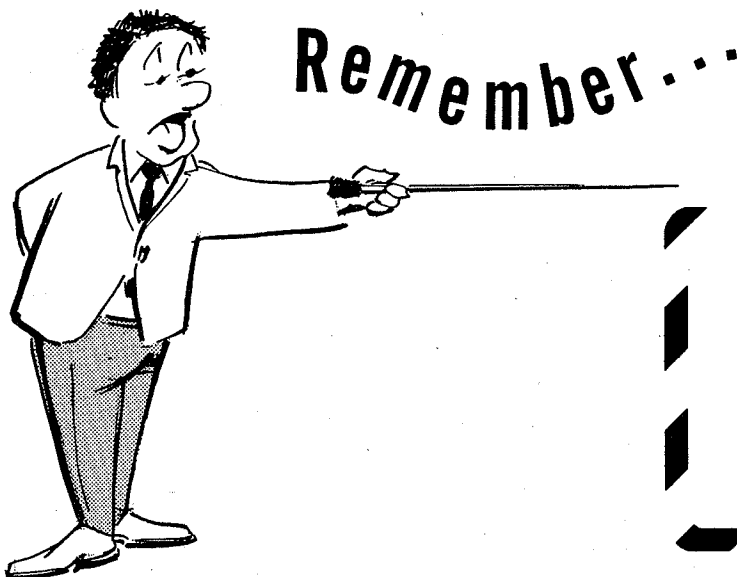
Date Purchased \_\_\_\_\_

Purchased From \_\_\_\_\_

Address \_\_\_\_\_

Engine Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Type No. \_\_\_\_\_

To obtain replacement parts from dealer, advise quantity, part number and description.

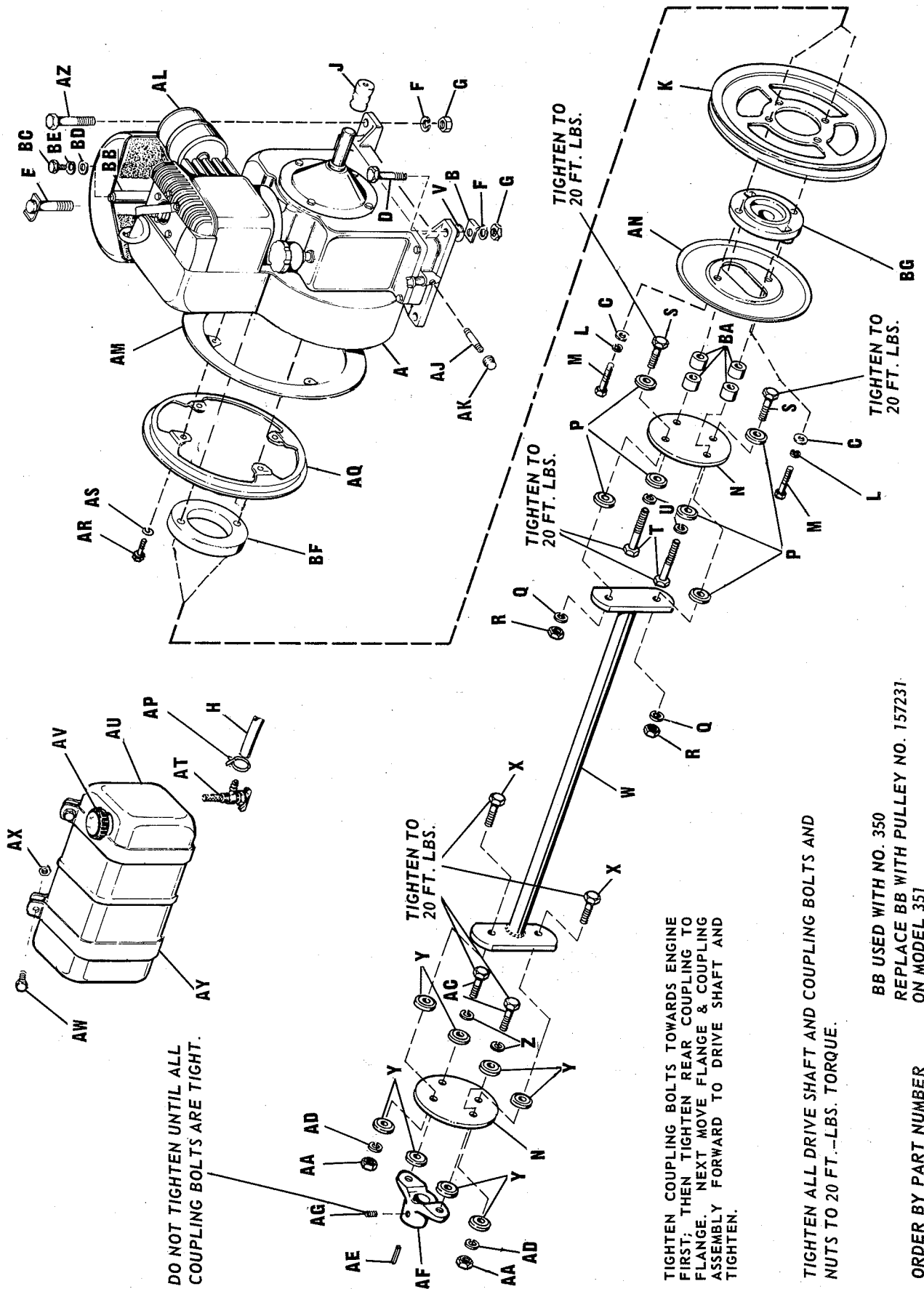


Remember...

### FOR YOUR SAFETY

1. ALWAYS STOP ENGINE BEFORE LEAVING MACHINE
2. ALWAYS STOP ENGINE BEFORE SERVICING OR ADJUSTING MACHINE OR EQUIPMENT
3. ALWAYS KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER-DRIVEN PARTS

# ENGINE AND DRIVE SHAFT.

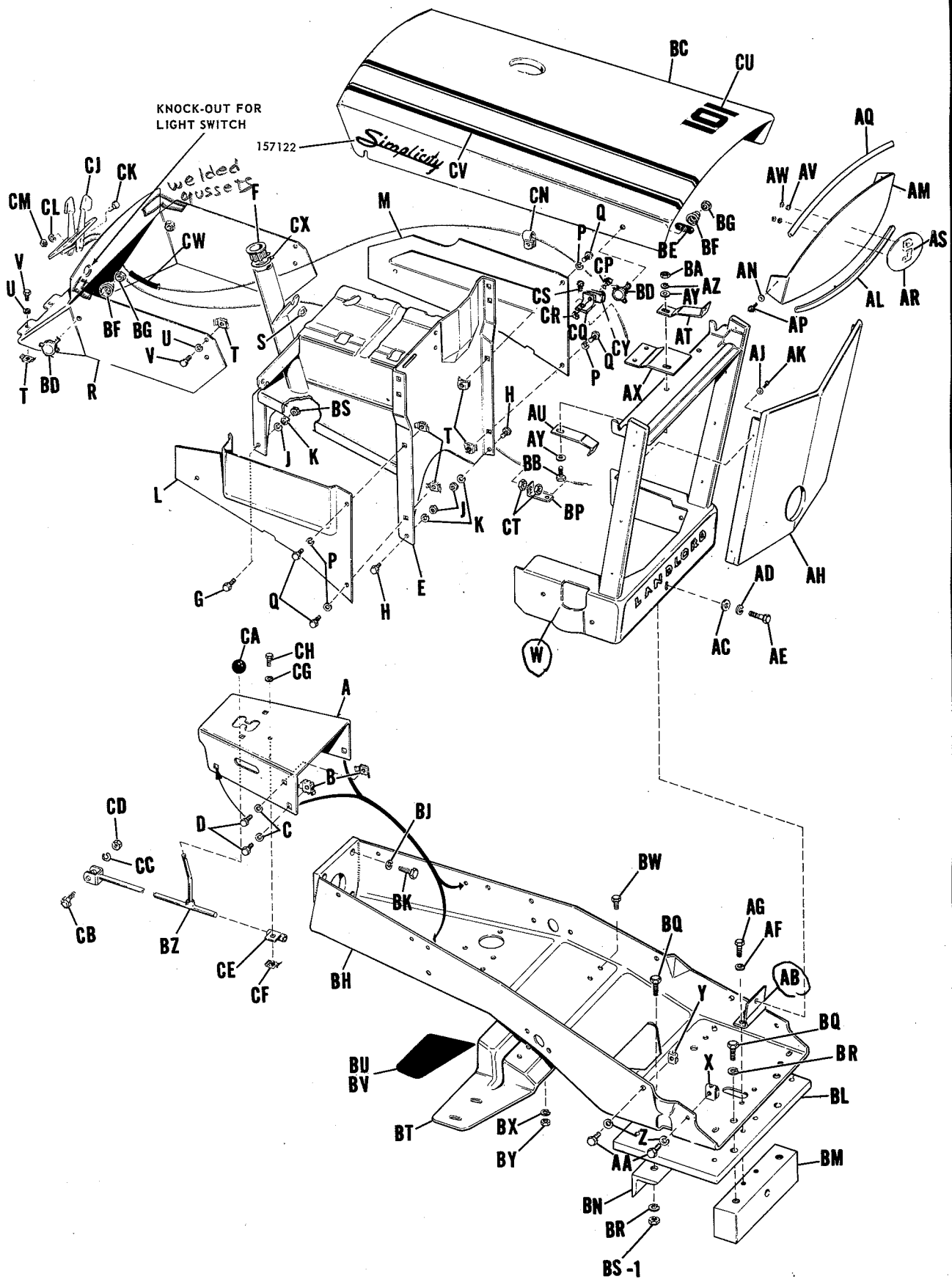


# ENGINE AND DRIVE SHAFT

ORDER BY PART NUMBER

Reference Letter	Part No.	Description
A	157319	Engine, Briggs & Stratton Model 243431, 10 HP., Type 0123
B	157144	Stop Axle
C	719002	Plain Washer, 5/16"
D	705010	Hex. Cap Screw, 3/8"-16 x 1-3/4" lg.
E	154315	Screw Assembly, Engine, L.H. Rear
F	720002	Lock Washer, 3/8"
G	717003	Full Hex. Nut, 3/8"-16
H	157316	Fuel Hose (flexible)
J	154327	Crankshaft Extension Guard
K	157305	Engine Pulley
L	720001	Lock Washer, 5/16"
M	715068	Hex. Cap Screw, 5/16"-18 x 2" lg.
N	157422	Coupling
P	157424	Special Washer
Q	720002	Lock Washer, 3/8"
R	717003	Full Hex. Nut, 3/8"-16
S	705016	Hex. Cap Screw 3/8"-16 x 1-1/4"
T	705006	Hex. Hd. Capscrew, 3/8"-16 x 2" lg.
U	720002	Lock Washer, 3/8"
V	719001	Plain Washer 3/8"
W	157016	Drive Shaft Assembly
X	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4" lg.
Y	157424	Special Washer
Z	720002	Lock Washer, 3/8"
AA	717003	Full Hex. Nut, 3/8"-16
AC	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4" lg.
AD	720002	Lock Washer, 3/8"
AE	157427	Key
AF	154198	Drive Shaft Flange
AG	715049	Cup Point Socket Head Set Screw, 3/8"-24 x 5/8" lg.
AH	725504	Hi-Pro Key
AJ	154350	Pipe Nipple, 3/8" x 1-1/2"
AK	726501	Pipe Cap, 3/8"
AL	154379	Exhaust Muffler
AM	157099	Flywheel Shroud
AN	157308	Engine Screen
AP	154372	Clamp Hose
AQ	157306	Shroud
AR	705002	Hex. Cap Screw, 1/4"-20 x 1/2" lg.
AS	720003	Lock Washer 1/4"
AT	156176	Shut-Off Valve
AU	157006	Fuel Tank
AV	156175	Fuel Tank Cap
AW	705053	Hex. Hd. Capscrew, 1/4"-20 x 1-3/4" lg.
AX	717005	Full Hex Nut, 1/4"-20
AY	157002	Tank Strap
AZ	705006	Hex Hd. Capscrew, 3/8" -16 x 2" lg.
BA	157081	Spacer
BB	157126	Air Cleaner Spacer
BC	715018	Hex Hd., Capscrew, 1/4"-20 x 5/8" lg.
BD	719006	Plain Washer, 1/4"
BE	720003	Lock Washer, 1/4"
BF	157355	Flywheel Spacer
BG	157307	Drive Hub
BH	8061100	Key

# FRAME, HOOD, GRILL, INST. PANEL & STEERING POST



# FRAME, HOOD, GRILL, INST. PANEL & STEERING POST

ORDER BY PART NUMBER

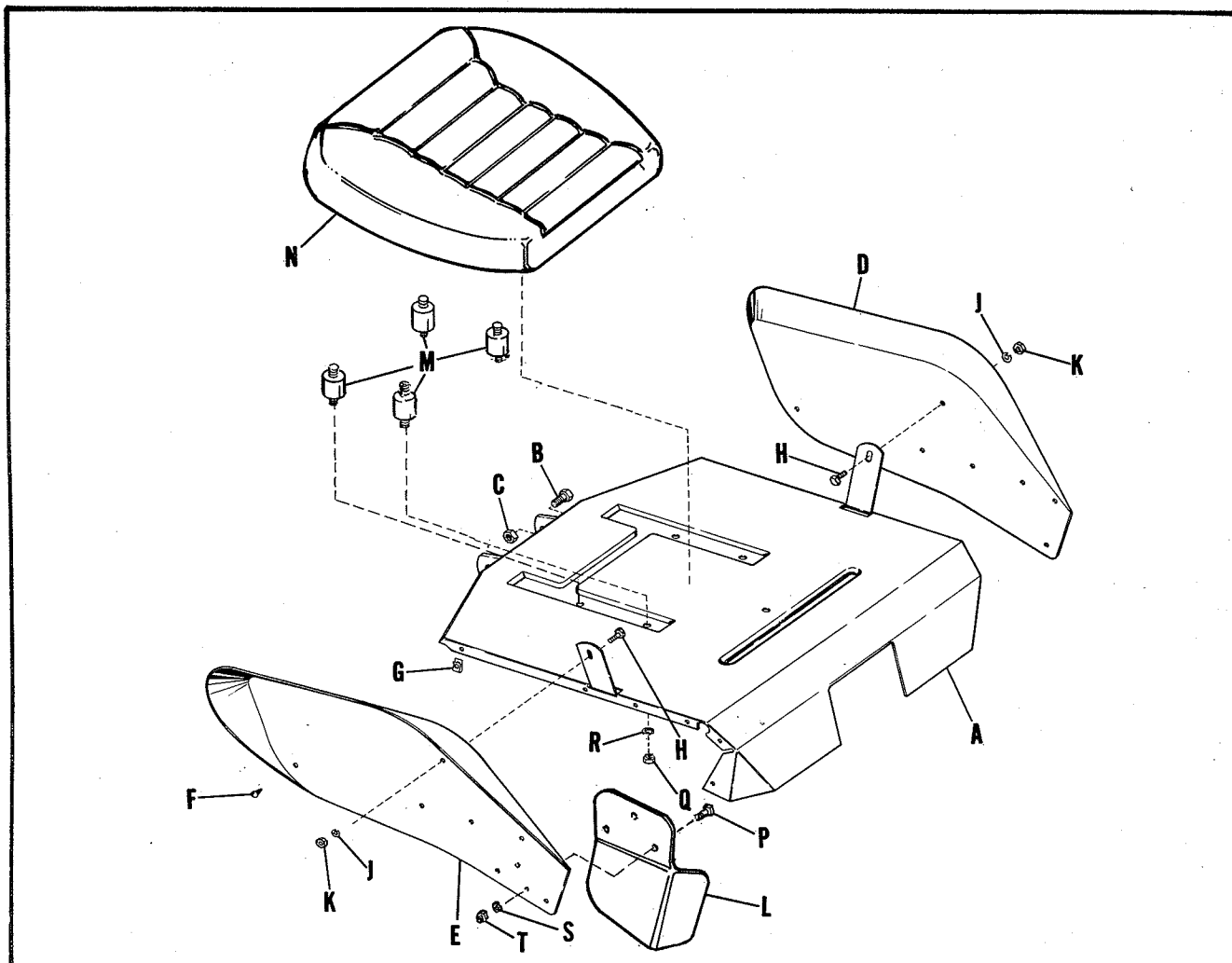
Ref. Letter	Part No.	Description
A	157092	Frame Cover
B	718032	Retainer Nut
C	720003	Lock Washer, 1/4"
D	715018	Hex Capscrew, 1/4"-20 x 5/8" lg.
E	157068	Support Assembly, Fuel Tank & Steering Post
F	157077	Bushing, Steering
G	705019	Hex Capscrew, 5/16"-18 x 1-1/4" lg.
H	705012	Hex Capscrew, 5/16"-18 x 5/8" lg.
J	717001	Hex Nut, Full, 5/16"-18
K	720001	Lock Washer, 5/16"
L	157082	Panel, R.H. Side
M	157058	Panel, L.H. Side
P	720003	Lock Washer, 1/4"
Q	715018	Hex Capscrew, 1/4"-20 x 5/8"
R	157063	Dash Assembly
S	718033	Nut, Flange, "Whiz-Lock", 5/16"-18
T	718032	Nut Retainer
U	720003	Lock Washer, 1/4"
V	715018	Hex Capscrew, 1/4"-20 x 5/8" lg. Grade 5
W	<del>157010</del>	Cover & Tube Assembly <b>157477</b> 6-14-66
X	718022	Nut Retainer (Front)
Y	718030	Nut Retainer (Rear)
Z	720001	Lock Washer, 5/16"
AA	715048	Hex Capscrew, 5/16"-18 x 3/4" lg. Grade 5
AB	<del>157103</del>	Bracket Assembly <b>157486</b> 6-14-66
AC	719002	Plain Washer, 5/16"
AD	720001	Lock Washer, 5/16"
AE	705019	Hex Capscrew, 5/16"-18 x 1-1/4" lg.
AF	720001	Lock Washer, 5/16"
AG	705018	Hex Capscrew, 5/16"-18 x 1-1/2" lg.
AH	157076	Front Grille
AJ	719007	Plain Washer, 3/16"
AK	714003	Screw, Self-Tap, Recessed Hex Hd., #10 Dia. x 1/2" lg.
AL	157115	Trim, Lower Grille
AM	157061	Grille, Top
AN	719007	Plain Washer, 3/16"
AP	714003	Screw, Self-Tap, Recessed Hex Hd., #10 Dia. x 1/2" lg.
AQ	157114	Trim, Upper Grille
AR	157071	Support Assembly, Emblem
AS	157074	Film, Front Emblem
AT	157111	Brace, Upper Grille (Top)
AU	157112	Brace, Upper Grille (Bottom)
AV	720007	Lock Washer, #12
AW	717023	Nut, Full, Hex, #10-24
AX	157104	Bracket, Grille
AY	719006	Plain Washer, 1/4"
AZ	720003	Lock Washer, 1/4"
BA	717005	Nut, Full, Hex, 1/4"-20
BB	715051	Hex Capscrew, 1/4"-20 x 1" lg.
BC	157064	Hood
BD	156309	Tee Handle Assy.
BE	157101	Nut
BF	157127	Spring, Conical
BG	717511	Lock Nut, Full, Hex, 5/16"-18
BH	157085	Frame Assembly
BJ	720006	Lock Washer, 7/16"
BK	706003	Hex Capscrew, 7/16"-20 x 1-1/2"
BL	157057	Weight, Base
BM	157060	Support
BN	<del>157054</del>	Angle, Frame, Rear <b>157482</b> 6-3-66
BP	157108	Clamp
BQ	706003	Hex Capscrew, 7/16" 20 x 1-1/2" lg.
BR	720006	Lock Washer, 7/16"
BS	717511	Hex Locknut, 5/16"-18

# FRAME, HOOD, GRILL, INS. PANEL & STEERING POST (cont.)

ORDER BY PART NUMBER

Ref. Letter	Part No.	Description
BS-1	717022	Hex Nut, Full, 7/16"-14
BT	157065	Foot Rest
BU	157090	Pad, Foot Rest, L.H.
BV	157089	Pad, Foot Rest, R.H.
BW	705004	Hex Capscrew, 3/8"-16 x 3/4" lg.
BX	720002	Lock Washer, 3/8"
BY	717003	Hex Nut, Full, 3/8"-16
BZ	157055	Rod Assembly, Shifter
CA	8021050	Ball
CB	705018	Hex Capscrew, 5/16"-18 x 1/2" lg.
CC	720001	Lock Washer, 5/16"
CD	717001	Hex Nut, Full, 5/16"-18
CE	157020	Guide Assembly, Shift Rod
CF	718032	Nut Retainer
CG	720003	Lock Washer, 1/4"
CH	715018	Hex Capscrew, 1/4"-20 x 5/8" lg. Grade 5
CJ	157098	Control, Dual, Throttle & Choke
CK	705025	Hex Capscrew, 1/4"-20 x 1-1/2" lg.
CL	720003	Lock Washer, 1/4"
CM	717005	Hex Nut, Full, 1/4"-20
CN	157108	Clip, Choke Cable
CP	710004	Mach. Screw #10-32 x 3/8" lg.
CQ	157315	Throttle Cable Bracket
CR	717007	Hex. Nut #10-32
CS	714016	Self Tap Screw, 1/4"-20 x 1/2" lg.
CT	718003	Locknut, Control
CU	157309	Film Number
CV	157310	Strip Hood
CW	157192	Insulator
CX	157241	Snap Ring
CY	157247	Clamp 154247

## SEAT AND FENDERS

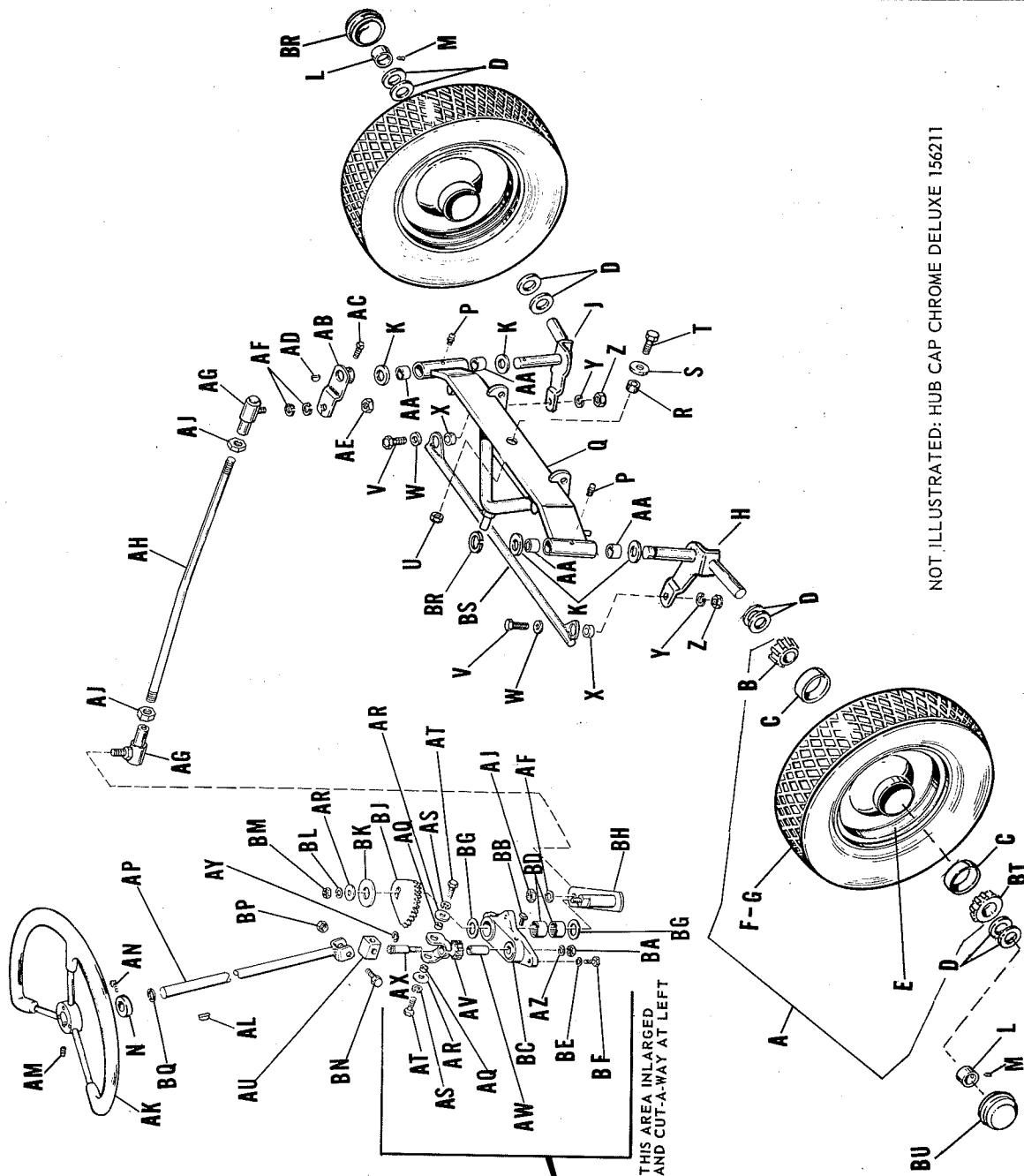
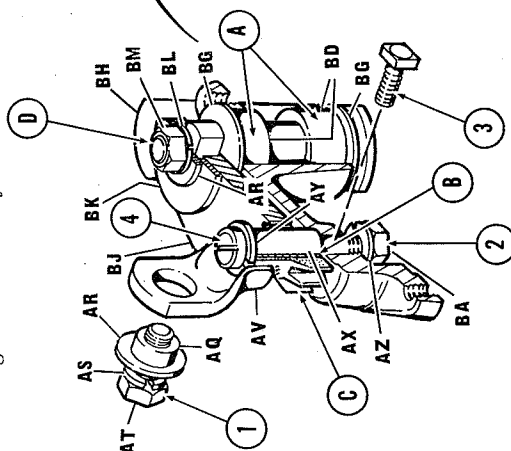


ORDER BY PART NUMBER

Reference Letters	Part No.	Description
A	154471	Cover and Seat Pivot Assembly
B	705031	Screw, Cap, Hex., 3/8" - 16 N. C. x 7/8" lg.
C	717510	Nut, Lock, Full, Hex., 3/8" - 16 N. C.
D	157083	Fender, L. H.
E	157049	Fender, R. H.
F	714003	Screw, Self Tapping, #10 x 1/2" lg.
G	718019	Nut, Speed, Tinnerman
H	705002	Screw, Cap, Hex., 1/4" - 20 N. C. x 1/2" lg.
J	720003	Washer, Lock, 1/4"
K	717005	Nut, Hex., Full, 1/4" - 20 N. C.
L	154475	Guard, Starter, Cup
M	157094	Connector Cushion
N	156203	Seat Assembly
P	705030	Capscrew, Hex Hd., 1/4"-20 x 3/4" lg.
Q	717001	Hex Nut, Full, 5/16"-18
R	720001	Lock Washer, 5/16"
S	720003	Lock Washer, 1/4"
T	717005	Hex Nut, Full, 1/4"-20

# STEERING GEAR CLEARANCE ADJUSTMENT

- A. Remove R.H. Side Panel.
- B. Remove Capscrew (No.1) from Steering Shaft and move out of the way.
- C. Loosen Hex. Nut (No. 2)..
- D. Turn Eccentric Pin (No. 3) until the Pinion and Steering Gear are in a position that permits minimum backlash. Be sure that the Gears are not meshed to tight that it interferes with steering.
- F. Tighten the Hex. Nut (No. 2) and Set Screw (No. 3).
- G. Replace the Capscrews (No. 1) and R.H. Side Panel.
- H. Grease Needle Bearings, (A) Bushing (B) and Gear Teeth (C) before reassembly.
- To grease Needle Bearings (A) remove attaching hardware (D) and remove Steering Arm Assembly.



NOT ILLUSTRATED: HUB CAP CHROME DELUXE 156211

ORDER BY PART NUMBER

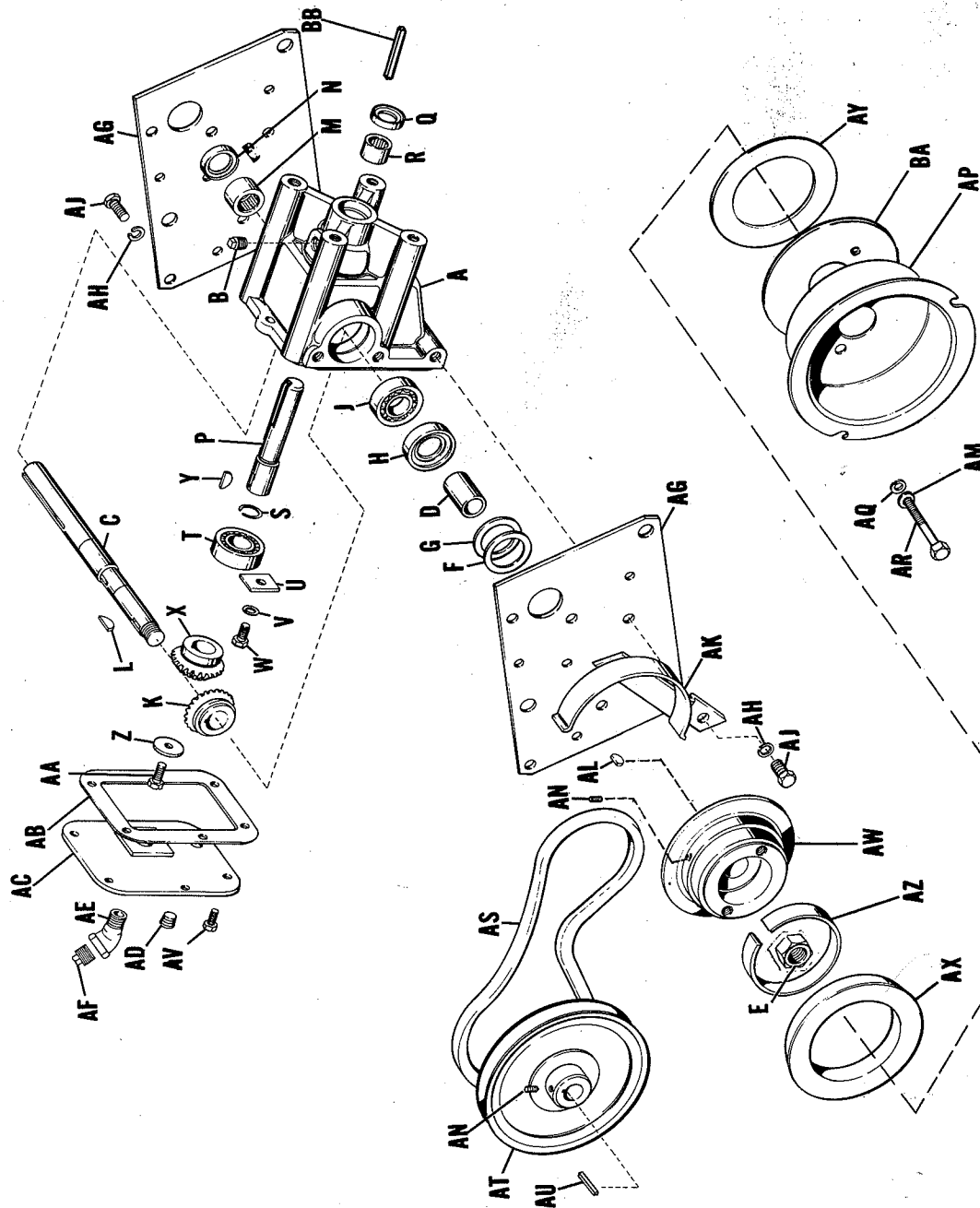
## FRONT WHEELS, AXLE, TIE ROD & STEERING



# FRONT WHEELS, AXLE, TIE ROD & STEERING

ORDER BY PART NUMBER

Reference Letter	Part No.	Description
A	154395	Wheel and Tire Assembly
B	154397	Bearing Cone, w/seal
C	154393	Bearing Cup
D	108181	Washer
E	154427	Wheel w/Bearing Cup
F	153037	Tire, 4.80/4.00
G	153038	Tube, 4.00-8
H	157294	Spindle Assembly, R.H.
J	157297	Spindle Assembly, L.H.
K	108181	Washer
L	8021010	Set Collar
M	713502	Cup Point Socket Head Set Screw, 5/16"-18 x 1/4" lg.
N	8021010	Set Collar
P	727002	Grease Fitting
Q	154255	Axle Assembly, Front
R	154182	Spacer
S	719004	Plain Washer, 1/2"
T	705037	Hex. Cap Screw, 1/2"-13 x 1" lg.
U	717518	Full Lock Hex. Nut, 1/2" -13
V	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4" lg.
W	719001	Plain Washer, 3/8"
X	154177	Spacer
Y	720002	Lock Washer, 3/8"
Z	717003	Full Hex. Nut, 3/8"-16
AA	154289	Bearing
AB	154172	Arm Assembly, Steering, L.H.
AC	713006	Screw, Set, Cup Point, Square Head, 5/16"-18 x 1/2" lg.
AD	725504	Hi-Pro Key
AE	717008	Full Hex. Nut, 1/2"-20
AF	720004	Lock Washer, 1/2"
AG	154301	Ball Joint
AH	157421	Tie Rod
AJ	717016	Nut, 1/2"-20 N.F.
AK	157113	Steering Wheel
AL	725003	Woodruff Key, #9
AM	713503	Socket Head Cup Point Set Screw, 5/16"-18 x 5/16" lg.
AN	713502	Socket Hd. Set Screw, 5/16"-18 x 1/4" lg.
AP	157259	Steering Shaft Assembly
AQ	153081	Spacer
AR	719001	Plain Washer, 3/8"
AS	720002	Lock Washer, 3/8"
AT	715030	Hex Cap Screw, 3/8"-16 x 3/4" lg.
AU	154153	Universal Joint Pin
AV	157254	Bushing Assembly
AW	157258	Bushing
AX	157253	Pin Eccentric
AY	158399	Retainer Ring
AZ	720002	Lock Washer
BA	717003	Full Hex. Nut, 3/8" -16
BB	713009	Sq. Hd. Set Screw, 1/4"-20 x 5/8" lg.
BC	157302	Steering Bracket
BD	154258	Needle Bearing
BE	720001	Lock Washer, 5/16"
BF	705012	Hex. Cap Screw, 5/16"-18 x 5/8"
BG	8061012	Washer
BH	157250	Steering Arm Assembly
BJ	157289	Gear Steering
BK	108182	Arbor Washer
BL	720006	Lock Washer 7/16"
BM	717022	Full Hex. Nut, 7/16"-14
BN	715026	Hex Cap Screw,
BP	717511	Full Hex. Nut, 5/16"-18
BQ	157241	Snap Ring
BR	157286	Retaining Ring
BS	154175	Drag Link
BT	154486	Outside Bearing
BU	154487	Hub Cap



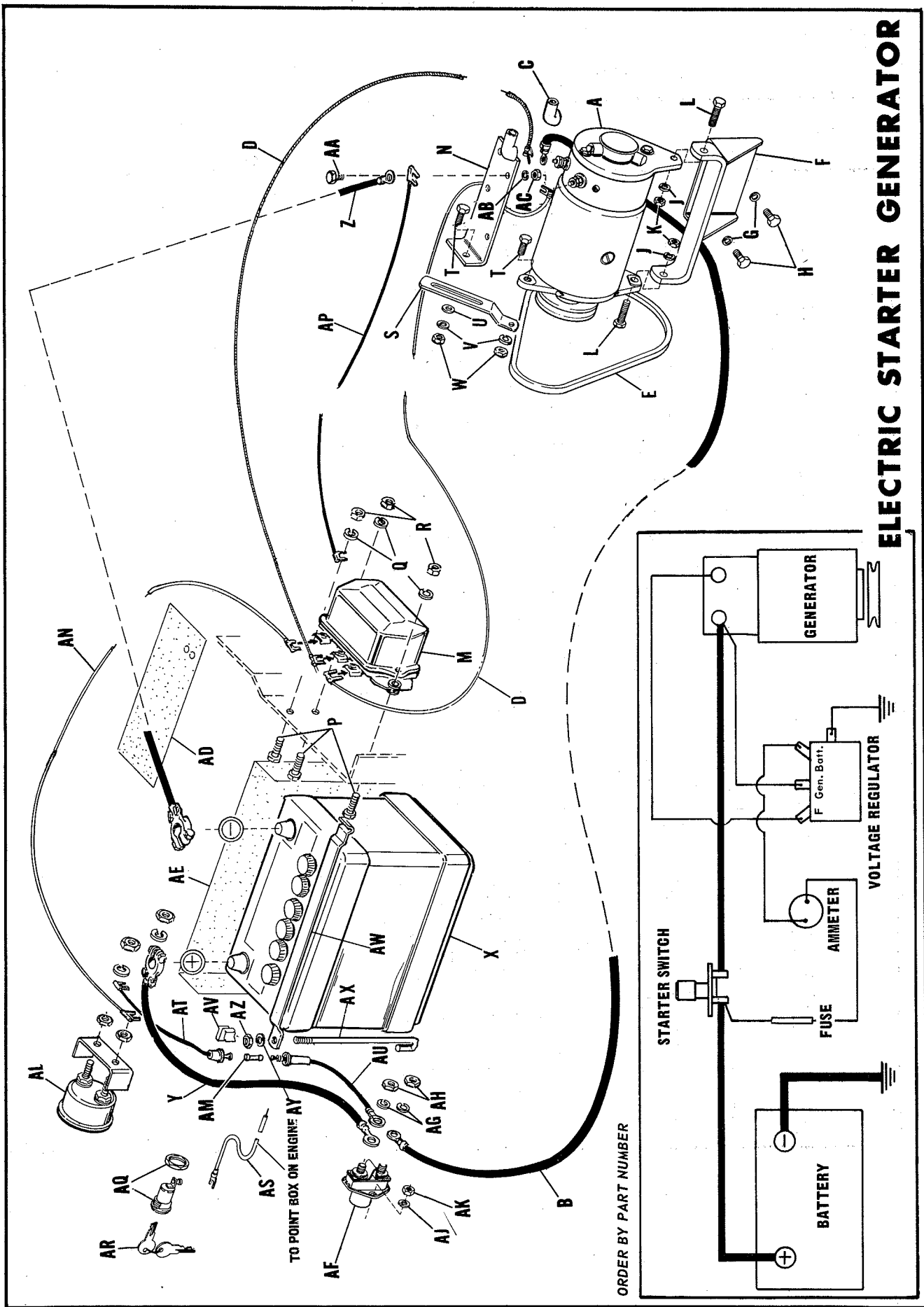
ORDER BY PART NUMBER

# BEVEL GEAR HOUSING

# BEVEL GEAR HOUSING

ORDER BY PART NUMBER

Reference Letter	Part No.	Description
A	154062	Housing, Bevel Gear , Complete w/2 needle brgs.
B	154326	Plug, Pipe
C	154135	Shaft, Driven
D	154136	Spacer, Pulley
E	717517	Nut, Hex. , Jam
F	154137	Shim (as required)
G	154138	Shim
H	154278	Seal, Oil
J	118011	Bearing, Ball
K	154139	Gear, Bevel, Driven
L	725003	Key, Woodruff
M	154279	Bearing, Needle
N	118117	Seal, Oil
P	157426	Shaft, Driver 2.00 / 15 + (6-21-66)
Q	154263	Seal, Oil
R	154258	Bearing, Needle
S	118134	Ring, Retaining
T	118011	Bearing, Ball
U	154040	Plate, Bearing Clamp
V	720001	Washer, Lock, 5/16"
W	705012	Screw, Cap, Hex. , 5/16" - 18 N. C. x 5/8" lg.
X	154121	Gear, Bevel, Driver
Y	725003	Key, Woodruff
Z	154026	Washer
AA	154281	Screw, Cap, Hex. , 5/16" - 18 N. C. x 3/4" lg.
AB	154282	Gasket
AC	154141	Cover Assembly, Housing
AD	726002	Plug, Pipe
AE	728001	Elbow, Street
AF	726003	Plug, Pipe
AG	154144	Plate, Side
AH	720006	Washer, Lock, 7/16"
AJ	705041	Screw, Cap, Hex. , 7/16" - 14 N. C. x 1" lg.
AK	154101	Guard Assembly, Belt
AL	725003	Key, Woodruff
AM	719002	Plain Washer, 5/16"
AN	713503	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 5/16" lg.
AP	154384	Pulley, Rope Starter
AQ	720001	Washer, Lock, 5/16"
AR	705001	Screw, Cap, Hex. , 5/16" - 18 N. C. x 7/8" lg.
AS	154273	Belt, V-Drive
AT	154272	Pulley, Drive
AU	8061081	Key
AV	707003	Screw, Cap, Hex. , 1/4" - 20 x 5/8" lg.
AW	157030	Pulley Half
AX	157031	Pulley Half
AY	157032	Thrust Washer
AZ	157033	Bearings
BA	157150	Thrust Washer
BB	157427	Key



# ELECTRIC STARTER-GENERATOR SYSTEM

ORDER BY PART NUMBER

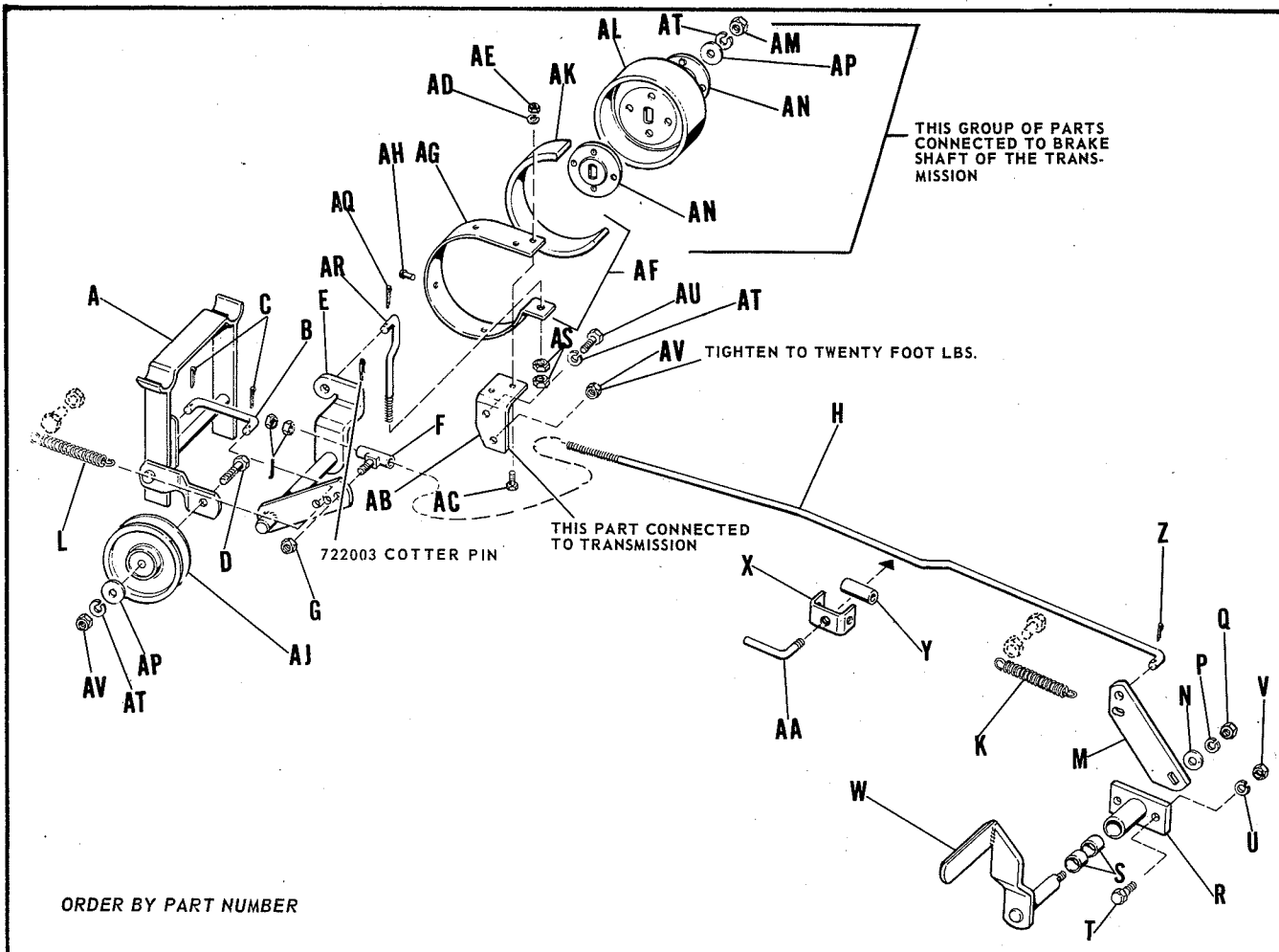
Ref. Letter	Part No.	Description
A	122041 **	Motor-Generator
B	122149	Cable, Generator, Start
C	122023	Terminal Cover
D	122140	Wire, Reg. Gen.
E	122146	"V"-Belt
F	157004	Support Assembly
G	720001	Lock Washer, 5/16"
H	705017	Hex Capscrew, 5/16"-18 x 3/4" lg.
J	720001	Lock Washer, 5/16"
K	717001	Hex Nut, Full, 5/16"-18
L	705019	Hex Capscrew, 5/16"-18 x 1-1/4"
M	122148 **	Voltage Regulator
N	154002	Bracket
P	705030	Hex Capscrew, 1/4"-20 x 3/4" lg.
Q	720003	Lock Washer, 1/4"
R	717005	Hex Nut, Full, 1/4"-20
S	157102	Belt Tightener
T	705017	Hex Capscrew, 5/16"-18 x 3/4" lg.
U	719002	Plain Washer, 5/16"
V	720001	Lock Washer, 5/16"
W	717001	Hex Nut, Full, 5/16"-18
X	122135 *	Battery
Y	122139	Cable ( Battery to Starter )
Z	122138	Cable ( Battery to Ground )
AA	705015	Hex Capscrew, 1/4"-20 x 5/8" lg.
AB	720003	Lock Washer, 1/4"
AC	717005	Hex Nut, Full, 1/4"-20
AD	122142	Battery Insulation
AE	122143	Fuel Tank Insulation
AF	122046	Starter Switch
AG	720002	Lock Washer, 3/8"
AH	717003	Hex Nut, Full
AJ	720003	Lock Washer, 1/4"
AK	717005	Hex Nut, Full, 1/4"-20
AL	122131	Ammeter
AM	122172	Fuse, 20 AMP.
AN	122144	Wire ( Ammeter to Regulator )
AP	122147	Wire ( Ground to Ground )
AQ	122048	Ignition Switch
AR	122111	Keys
AS	122141	Wire ( Switch to Engine )
AT	122171	Wire
AU	122170	Wire
AV	122182 3	Clip Fuse
AW	122173	Bracket Battery
AX	122174	"J" Bolt
AY	720003	Lock Washer, 1/4"
AZ	717005	Hex. Nut Full, 1/4"-20

\* FOR SERVICE CONTACT YOUR  
LOCAL EXIDE DEALER

\*\* FOR SERVICE CONTACT YOUR  
LOCAL UNITED MOTOR SERVICE DEALER (DELCO-REMY)

*Change*

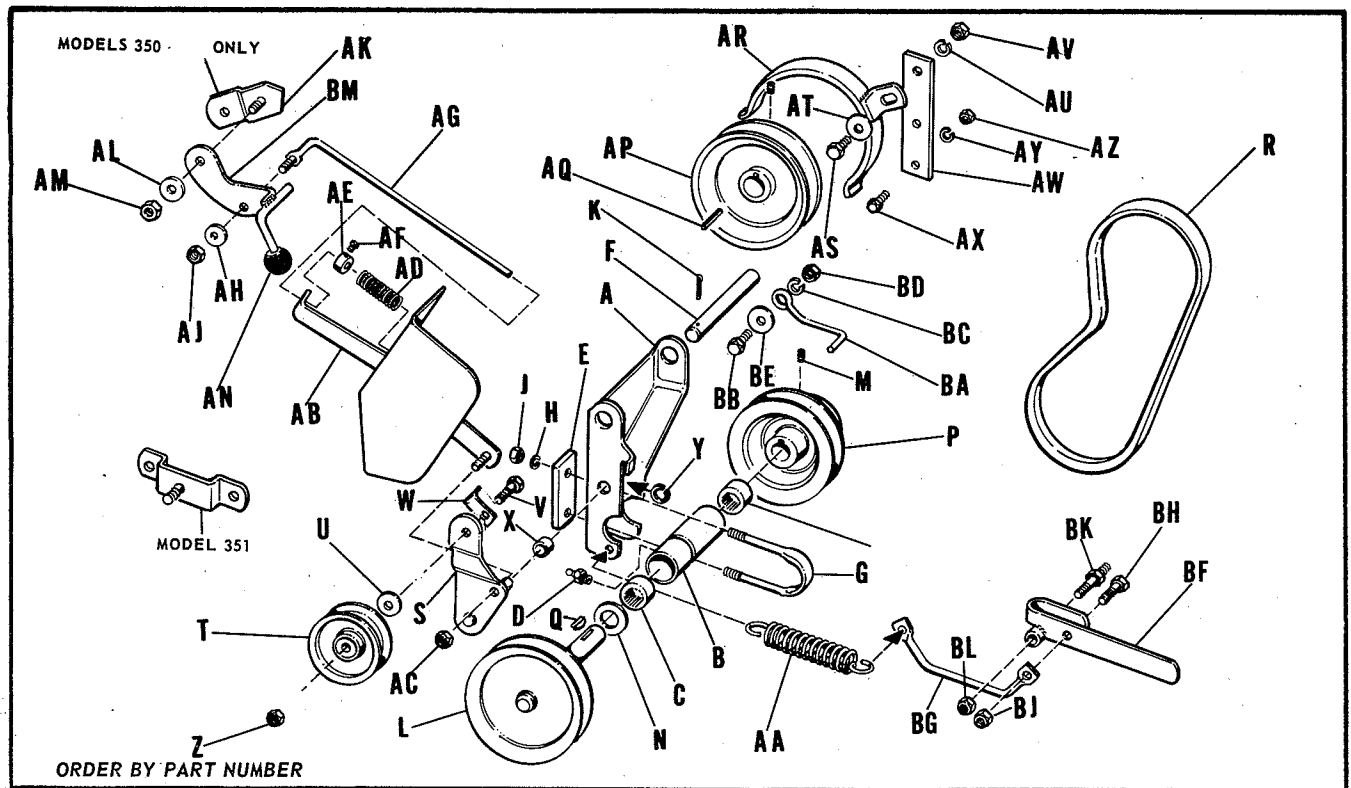
## CLUTCH AND BRAKE GROUP



Ref. Let.	Part No.	Description
A	157034	Support Assembly - Seat
B	157039	Clutch Lever Link
C	722001	Cotter Pin
D	705016	Hex. Cap Screw
E	157274	Lever Assembly - Pivot
F	154117	Guide Assembly - Rod
G	717511	Full Lock Hex. Nut
H	157303	Brake & Clutch Rod
J	717001	Full Hex. Nut
K	159106	Tension Spring
L	156302	Tension Spring
M	157300	Pedal Foot Arm
N	719001	Plain Washer
P	720002	Lock Washer
Q	717003	Full Hex. Nut
R	154123	Foot Pedal Bearing Ass'y.
S	8271027	Bushing
T	705007	Hex. Cap Screw
U	720001	Lock Washer
V	717001	Full Hex. Nut
W	157208	Foot Pedal Assembly
X	157277	Bracket Assembly

Ref. Let.	Part No.	Description
Y	157287	Spacer
Z	722009	Cotter Pin
AA	157088	Park Brake Lock
AB	154134	Brake Band Bracket
AC	705030	Hex. Cap Screw, 1/4"-20 x 3/4"
AD	720003	Lock Washer, 1/4"
AE	717005	Full Hex. Nut, 1/4"-20
AF	154132	Brake Band & Lining Assembly
AG	154060	Brake Band
AH	724501	Rivet #7 x 5/16"
AJ	108386	Idler Pulley
AK	154133	Brake Lining
AL	157282	Brake Drum
AM	717003	Full Hex. Nut, 3/8"-16
AN	158196	Special Washer
AP	719001	Plain Washer
AQ	722001	Cotter Pin
AR	157261	Brake Rod
AS	717003	Full Hex. Nut, 3/8"-16
AT	720002	Lock Washer
AU	705031	Hex. Cap Screw
AV	717003	Full Hex. Nut, 3/8"-16

# POWER TAKE-OFF

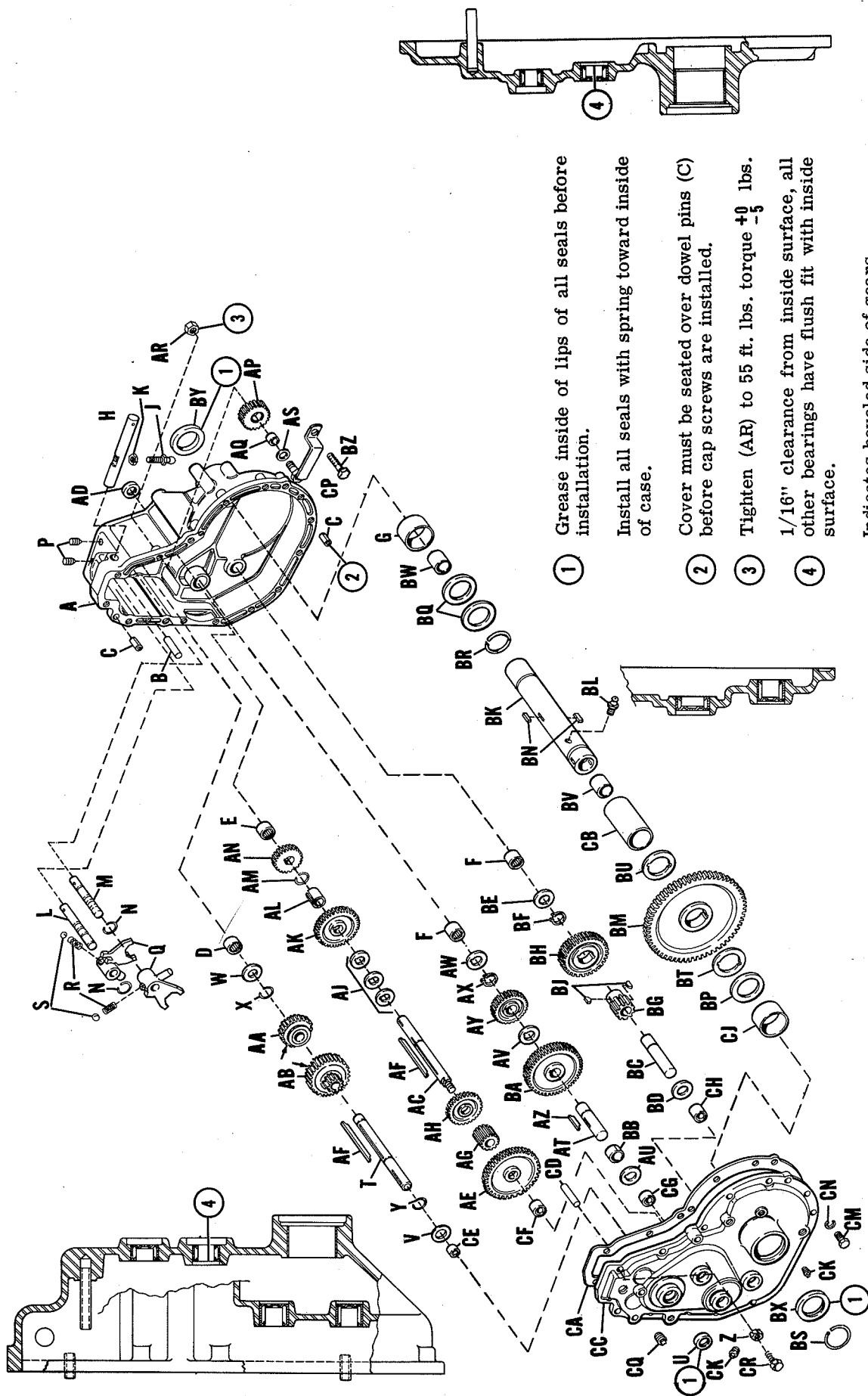


ORDER BY PART NUMBER

Ref. Let.	Part No.	Description
A	157285	P.T.O. - Bracket
B	157269	Bearing Housing
C	154258	Needle Bearing
D	727001	Grease Fitting
E	157271	Support Plate, 1/4" x 1-1/4" x 2-5/8" Lg.
F	154233	Pivot Rod, 5/8" Dia. x 6-13/16"
G	157270	"U" Bolt
H	720001	Lock Washer, 5/16"
J	717001	Full Hex. Nut 5/16"-18
K	722007	Cotter Pin 3/16" Dia. x 1-1/2"
L	157266	Shaft Assembly P.T.O.
M	713503	Screw, Set, Skt. Hd. Cup Pt. 5/16"-18 x 5/16" Lg.
N	8061012	Washer
P	157116	Pulley, P.T.O.
Q	725003	Woodruff Key #9-3/16" x 3/4"
R	154307	"V" Belt
S	157263	Idler Lever Assembly
T	154534	Idler Pulley
U	719002	Plain Washer 5/16"
V	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4"
W	157423	Stop
X	157272	Spacer
Y	157288	Retaining Ring
Z	717510	Full Hex. Nut 3/8"-16
AA	157262	Tension Spring
AB	154540	Rod Guide Assembly
AC	717510	Full Lock Hex. Nut, 3/8"-16
AD	8191045	Spring
AE	8191022	Set Collar
AF	713001	Screw, Set Sq. Hd. Cup Pt., 1/4"-20 x 3/8" Lg.

Order by Part Number

Ref. Let.	Part No.	Description
AG	154364	Clutch Rod Assembly
AH	719002	Plain Washer 5/16"
AJ	717511	Full Lock Hex. Nut 5/16"-18
AK	154362	Pivot Bar Assembly
AL	719001	Plain Washer 3/8"
AM	717510	Full Lock Hex. Nut 3/8"-16
AN	122005	Knob
AP	157121	Pulley
AQ	8061081	Key
AR	157132	Belt Guard Assembly
AS	705005	Hex. Cap Screw, 3/8"-16 x 1"
AT	719001	Plain Washer, 3/8"
AU	720002	Lock Washer 3/8"
AV	717003	Full Hex. Nut, 3/8"-16
AW	157050	Belt Guard Support, 3/16" x 1-1/4" x 5-7/16" Lg.
AX	705007	Hex. Cap Screw, 5/16"-18 x 1" Lg.
AY	720001	Lock Washer, 5/16"
AZ	717001	Full Hex. Nut, 5/16"-18
BA	8021014	Belt Stop
BB	705031	Hex. Cap Screw, 3/8"-16 x 7/8"
BC	720002	Lock Washer, 3/8"
BD	717003	Full Hex. Nut, 3/8"-16
BE	719001	Plain Washer, 3/8"
BF	157292	Handle Assembly
BG	157291	Spring Tension Rod
BH	705019	Hex. Cap Screw, 5/16"-18 x 1-1/4"
BJ	717511	Full Lock Hex. Nut, 5/16"-18
BK	157273	Stud
BL	717519	Full Lock Hex. Nut, 7/16"-14
BM	154356	Clutch Lever Assembly



① Grease inside of lips of all seals before installation.

② Install all seals with spring toward inside of case.

③ Cover must be seated over dowel pins (C) before cap screws are installed.

④ Tighten (AR) to 55 ft. lbs. torque  $\pm 0_{-5}$  lbs.

1/16" clearance from inside surface, all other bearings have flush fit with inside surface.

-- Indicates beveled side of gears.

ORDER BY PART NUMBER

## TRANSMISSION GROUP



# TRANSMISSION GROUP

ORDER BY PART NUMBER

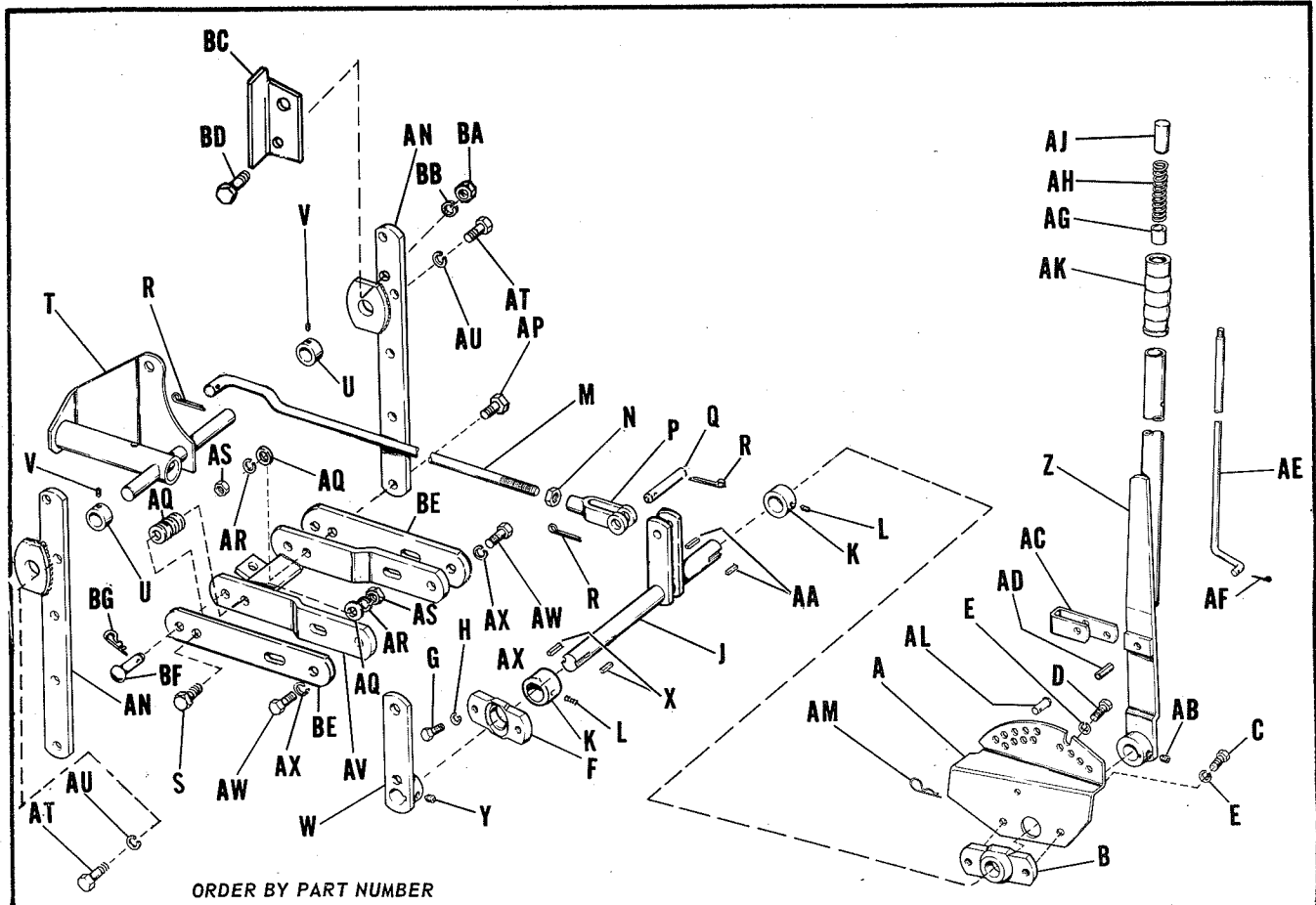
Reference Letter	Part No.	Description
A	154190	Case, Gear, Complete w/ bearings and dowel pins
B	154538	Pin, Roll
C	723007	Pin, Roll
D	154257	Bearing, Needle
E	154258	Bearing, Needle
F	154259	Bearing, Needle
G	154260	Bearing, Axle Tube
H	154066	Rod, Shift
J	154261	Stem, Shift
K	717010	Nut, Hex., Full, 3/8" - 24 N. F.
L	154067	Shaft, Shifter, Rev., Med.
M	154068	Shaft, Shifter, High, Low
N	8061048	Ring, Retaining
P	715019	Screw, Set, Hollow Head, Cone Point, 5/16" - 18 N. C. x 1/2" lg.
Q	154069	Fork, Shift
R	154323	Spring
S	154262	Ball, Shift Lock
T	157321	Shaft, Pulley
U	154263	Seal, Oil
V	154462	Washer
W	154462	Washer
X	154264	Ring, Retaining
Y	154264	Ring, Retaining
Z	717001	Hex Nut Jam, 5/16"-18
AA	154072	Pinion Assembly, Rev., II
AB	154075	Pinion Assembly, I and III
AC	157290	Shaft, 1st Intm.
AD	154263	Seal, Oil
AE	154078	Gear, Driven, I
AF	154354	Key
AG	154079	Pinion, 1st Intm.
AH	154080	Pinion, Driven, III
AJ	8061012	Spacer, Trans. Gear
AK	154081	Gear, Driven, II
AL	154082	Spacer
AM	154264	Ring, Retaining
AN	154083	Pinion, Reverse
AP	154087	Gear, Reverse
AQ	154084	Spacer, Rev. Gear
AR	717516	Nut, Lock, 1/2" - 20 N. F.
AS	154325	Washer
AT	154086	Shaft, 2nd. Intm.
AU	154038	Washer
AV	154038	Washer
AW	154038	Washer
AX	154266	Ring, Retaining
AY	154088	Pinion, 2nd. Intm.
AZ	154267	Key
BA	154089	Gear, 2nd. Intm.
BB	154090	Spacer
BC	154091	Shaft, 3rd. Intm.
BD	154038	Washer
BE	154038	Washer
BF	154266	Ring, Retaining
BG	154092	Pinion, 3rd. Intm.
BH	154093	Gear, 3rd. Intm.
BJ	725002	Key, Woodruff
BK	157188	Axle Tube W/Bushing

## TRANSMISSION GROUP (cont.)

ORDER BY PART NUMBER

Reference Letter	Part No.	Description
BL	727002	Fitting, Grease
BM	154095	Gear, Drive
BN	154096	Key
BP	154097	Washer
BQ	154097	Washer
BR	154268	Ring, Snap
BS	154268	Ring, Snap
BT	154130	Washer, Axle Tube
BU	154130	Washer, Axle Tube
BV	157028	Bearing
BW	157028	Bearing
BX	154269	Seal
BY	154269	Seal
BZ	705016	Screw, Cap, Hex. , 3/8" - 16 N. C. x 1-1/4" lg.
CA	154270	Gasket, Gear Case
CB	154098	Spacer, Axle Tube
CC	154191	Cover, Gear Case, Complete w/ bearings
CD	154537	Pin, Roll
CE	154258	Bearing, Needle
CF	154257	Bearing, Needle
CG	154271	Bearing, Needle
CH	154259	Bearing, Needle
CJ	154260	Bearing, Axle Tube
CK	726003	Plug, Pipe, 3/8"
CM	705007	Screw, Cap, Hex. , 5/16" - 18 N. C. x 1" lg.
CN	720001	Washer, Lock, 5/16"
CP	154352	Pin Assembly, Rev. Gear
CQ	726003	Plug, Pipe, 3/8"
CR	705019	Hex Cap Screw, 5/16"-18 x 1-1/4" lg.

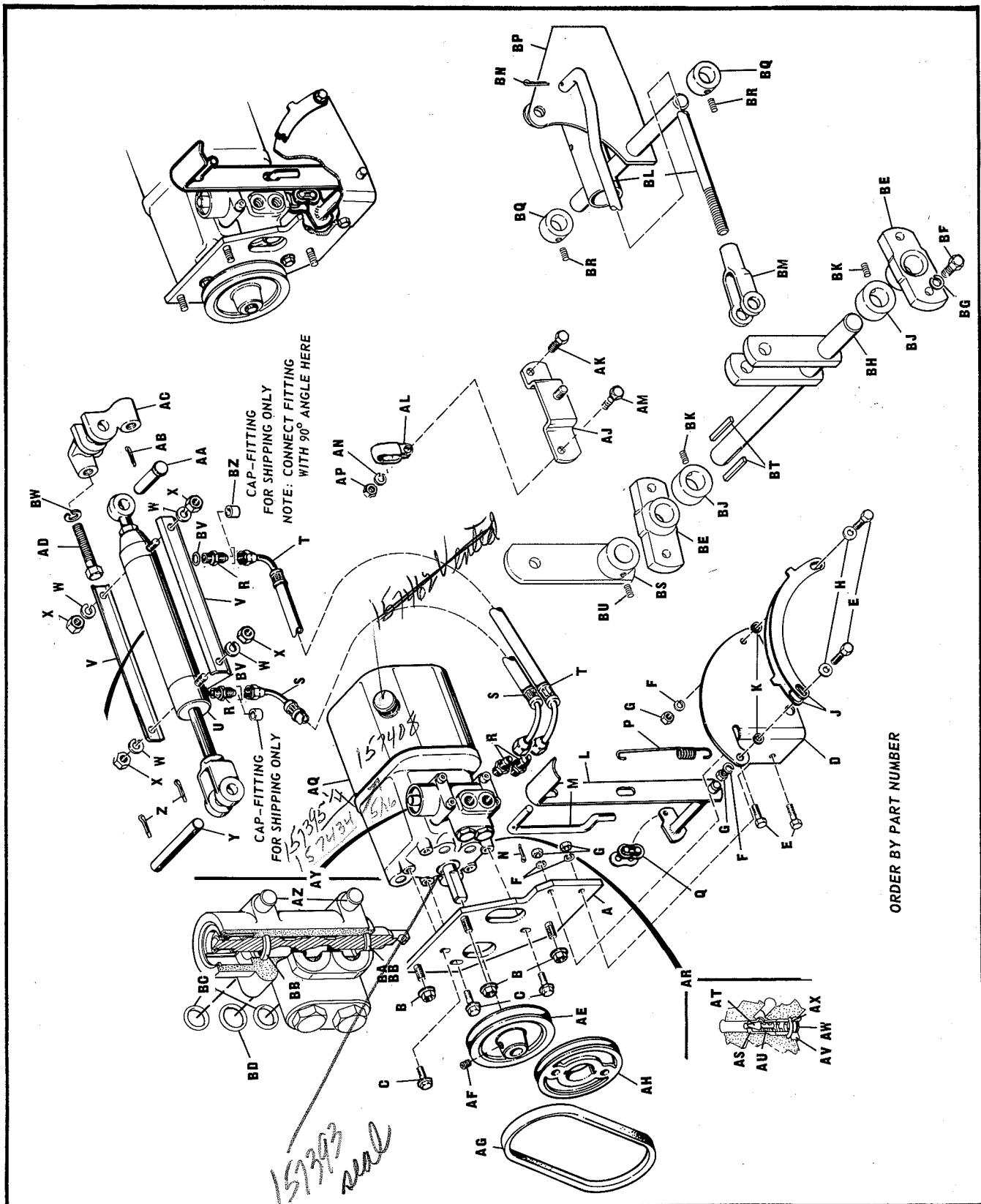
# REAR LIFT DRAW BAR GROUP



Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
A	154209	Lift Lever Quadrant	AC	154224	Lift Lever Latch
B	154210	Lift Lever Bearing	AD	723007	Roll Pin
C	705031	Hex. Cap Screw, 3/8"-16 x 7/8"	AE	157013	Latch Rod
D	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4"	AF	722001	Cotter Pin, 3/32" x 3/4"
E	720002	Lock Washer, 3/8"	AG	154226	Spacer
F	154210	Lift Lever Bearing	AH	152006	Spring
G	705031	Hex. Cap Screw, 3/8"-16 x 7/8"	AJ	154227	Thumb Button
H	720002	Lock Washer, 3/8"	AK	156209	Handle Grip
J	157105	Lift Shaft Assembly	AL	153058	Pin
K	8211005	Set Collar	AM	8161045	Spring Clip
L	713503	Cup Point Socket Head Screw, 5/16"-18 x 5/16"	AN	154200	Arm Assembly
M	157301	Rear Lift Rod	AP	705039	Hex Capscrew, 7/16"-14 x 1-1/2"
N	717008	Full Hex. Nut, 1/2"-20	AQ	719001	Plain Washer, 3/8"
P	154304	Adj. Yoke End	AR	720006	Lock Washer, 3/8"
Q	157110	Pin	AS	717002	Full Hex. Nut, 7/16"
R	722006	Cotter Pin, 1/8" x 1"	AT	705041	Hex. Cap Screw, 7/16"-14 x 1"
S	705047	Hex Cap Screw, 7/16"-14 x 1-3/4"	AU	720006	Lock Washer, 7/16"
T	154214	Tiller Lift Assembly	AV	154202	Draw Bar Assembly
U	8021010	Set Collar	AW	705042	Hex. Cap Screw, 7/16"-14 x 1-1/4"
V	713503	Socket Head Cup Point Set Screw, 5/16"-18 x 5/16"	AX	720006	Lock Washer, 7/16"
W	157078	Front Lift Lever Assembly	BA	717001	Full Hex. Nut, 5/16"
X	157120	Key	BB	720001	Lock Washer, 5/16"
Y	713502	Socket Head Cup Point Set Screw, 5/16"-18 x 1/4"	BC	154422	Seat Stop
Z	157012	Lift Lever Assembly	BD	705001	Hex. Cap Screw, 5/16"-18 x 7/8"
AA	157120	Key	BE	157091	Pull Bar
AB	713502	Hollow Head Cup Point Set Screw, 5/16"-18 x 1/4"	BF	155037	Round Head Pin
			BG	8161045	Spring Clip

# HYDRAULIC LIFT GROUP

Mfrs. No. 351 ONLY



# HYDRAULIC LIFT GROUP

ORDER BY PART NUMBER

Ref. Let.	Part No.	Description
A	157196	Support Pump Assembly
B	718033	"Whiz Lock" Flange, Hex. Nut, 5/16"-18
C	715060	"Whiz Lock" Flange, Hex Cap Screw 1/4"-20 x 3/4"
D	157199	Quadrant
E	715057	Hex. Cap Screw, 1/4"-20 x 3/4"
F	720003	Lock Washer 1/4"
G	717005	Full Hex. Nut, 1/4"
H	719006	Plain Washer, 1/4"
J	157204	Plate Stop
K	157205	Spacer
L	157200	Lever Assembly
M	157206	Latch Rod
N	722016	Cotter Pin, 3/32" x 5/8"
P	157207	Spring
Q	157208	Conn. Link
R	157209	Fitting
S	157210	Hose Assembly
T	157211	Hose Assembly
U	157236	Cylinder Assembly
V	157228	Side Bar
W	720001	Lock Washer, 5/16"
X	717001	Full Hex. Nut, 5/16"-18
Y	157225	Pin
Z	722009	Cotter Pin, 1/8" x 3/4"
AA	157194	Ram Bracket Pin
AB	722009	Cotter Pin, 1/8" x 3/4"
AC	157001	Ram Bracket
AD	705052	Hex. Cap Screw, 7/16"-14 x 2-1/4"
AE	157229	Pump Pulley
AF	713503	Hd. Cup Pt. Skt. Set Screw, 5/16"-18 x 5/16"
AG	157230	"V" Belt
AH	157231	Drive Pulley
AJ	157233	Pivot Bar Assembly
AK	705007	Hex. Cap Screw, 5/16"-18 x 1"
AL	157245	Hose Clamp
AM	705021	Hex. Cap Screw, 1/4"-20 x 1"

ORDER BY PART NUMBER

Ref. Let.	Part No.	Description
AN	720003	Lock Washer, 1/4"
AP	717005	Full Hex. Nut, 1/4"-20
AQ	157195	Pump & Tank & Valve
AR	157390	Relief Valve Assembly
AS	157399	Seat Relief
AT	157400	Plunger Relief
AU	157401	Spring Relief
AV	157402	Cap
AW	157403	Shim
AX	157404	"O" Ring
AY	157240	Valve Assembly
AZ	157396	Special Bolt
BA	157392	"O" Ring Service Kit
BB	157405	"O" Ring
BC	157406	"O" Ring
BD	157407	"O" Ring
BE	154210	Lift Lever Bearing
BF	705031	Hex. Cap Screw, 3/8"-16 x 7/8"
BG	720002	Lock Washer 3/8"
BH	157317	Lift Shaft Assembly
BJ	8211005	Set Collar
BK	713503	Cup Pt. Hd. Skt. Set Screw, 5/16"-18 x 5/16"
BL	157301	Lift Rod
BM	154304	Adj. Yoke End
BN	722006	Cotter Pin, 1/8" Dia. x 1"
BP	154214	Tiler Lift Assembly
BQ	802101C	Set Collar
BR	713505	Cup Pt. Hd. Skt. Set Screw, 5/16"-18 x 5/16"
BS	157078	Front Lift Lever Assembly
BT	157120	Key
BU	713502	Cup Pt. Hd. Hollow Set Screw, 5/16"-18 x 1/4"
BV	157221	"O" Ring
BW	720006	Lock Washer

## HYDRAULIC UNIT #339

Instructions for adjusting hand lever and float stops of quadrant.

Place the lever #157200 in the exact middle of the two hex cap screws (F) located in the quadrant #157204. This is done by adjusting the pump and tank #157195 up or down on the support #157196. Tighten the capscrews securing the pump and tank to the support.

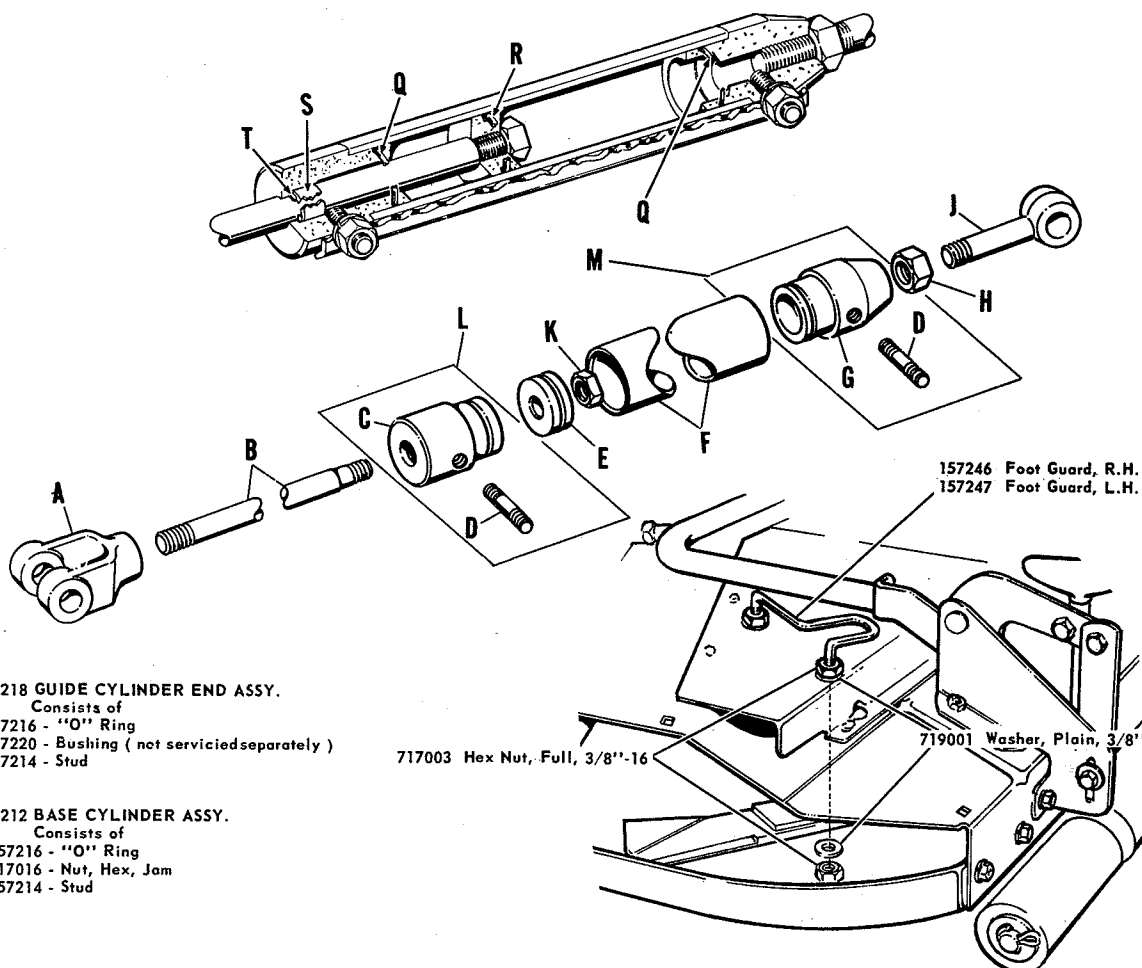
Move lever to most extreme position (front or rear). Bring stop plate up so notch is striking rod #157206 and secure capscrew (F) furthest from handle. Repeat procedure to the other extreme for other stop plate.

Check Rod #157206 in both positions. This rod is not to have ANY FREE MOVEMENT when in front or rear float position. Excessive play at this point increases back pressure on the pump and may cause overheating of the pump. If pump is moved to lift position (front or rear) and then drops the load before entering float position, readjust the hand lever to center of quadrant by moving pump up or down as described above. Oil lever and rod to insure free movement.

The bolts holding the pump and tank together should be checked and tightened to a torque of **40-45 INCH POUNDS.**

50-60

# HYDRAULIC LIFT GROUP



## L-157218 GUIDE CYLINDER END ASSY.

- Consists of  
 1 - 157216 - "O" Ring  
 1 - 157220 - Bushing (not serviced separately)  
 2 - 157214 - Stud

## M-157212 BASE CYLINDER ASSY.

- Consists of  
 1 - 157216 - "O" Ring  
 1 - 717016 - Nut, Hex, Jam  
 2 - 157214 - Stud

717003 Hex Nut, Full, 3/8"-16

719001 Washer, Plain, 3/8"

Ref. Let.	Part No.	Description
A	157223	Yoke
B	157224	Piston Rod
C	157219	Guide, Cylinder End
D	157214	Stud
E	157226	Piston
F	157217	Cylinder
G	157213	Base Cylinder
H	717016	Hex Jam Nut
J	157215	Eye Bolt

Ref. Let.	Part No.	Description
K	717009	Hex Nut Full
L	157218	Guide Cylinder End Assy.
M	157212	Base Cylinder Assy.
* N	157239	Tank & Pump (Less Valve) (Service Only)
* P	157240	Valve Assy. (Service Only)
Q	157216	"O" Ring
R	157227	"O" Ring
S	157220	Bushing
T	157221	"O" Ring

\* Parts Not Illustrated Here

## CAUTION

IT IS VITALLY IMPORTANT THAT THE HYDRAULIC FLUID AND ALL INTERNAL PARTS OF THIS UNIT BE KEPT COMPLETELY CLEAN AND FREE OF FOREIGN MATTER OF ANY TYPE.

USE UTMOST CARE IN ADDING OR CHECKING FLUID, AND IN PERFORMING ANY SERVICE ON INTEGRAL PARTS.

(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using.)

REMEMBER-HYDRAULICS DEMAND CLEANLINESS

SIMPLICITY MANUFACTURING COMPANY / PORT WASHINGTON, WIS.